

INSIDE: First Report from COMDEX!

Gulf Coast



Computing

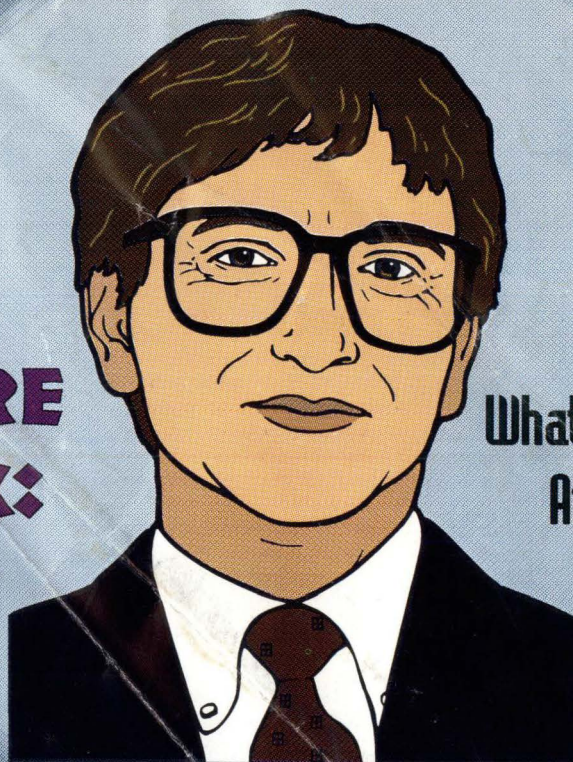
MultiMedia & Telecommunications

Your Guide to Personal and Business Computing & Interactive Entertainment

January 1995

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**FUTURE
SHOCK:**



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After '94

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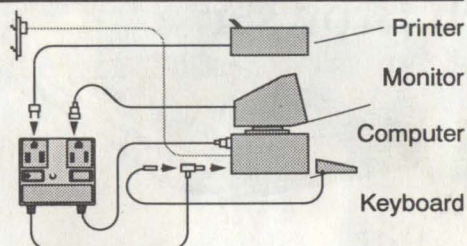
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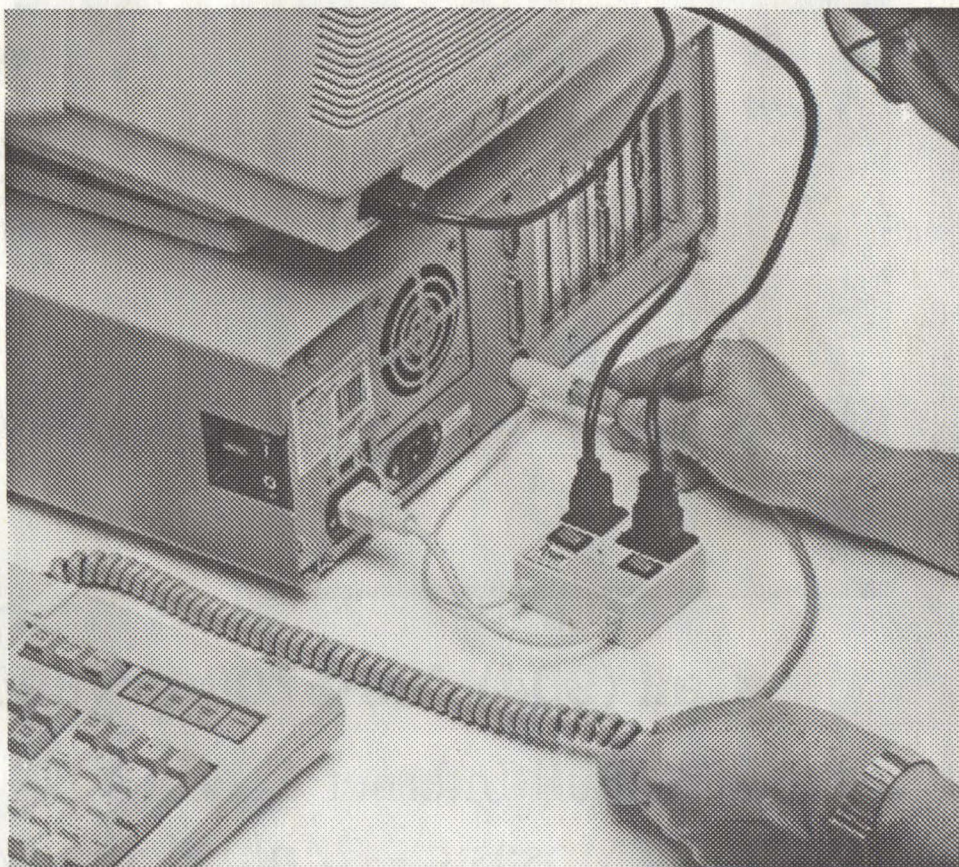


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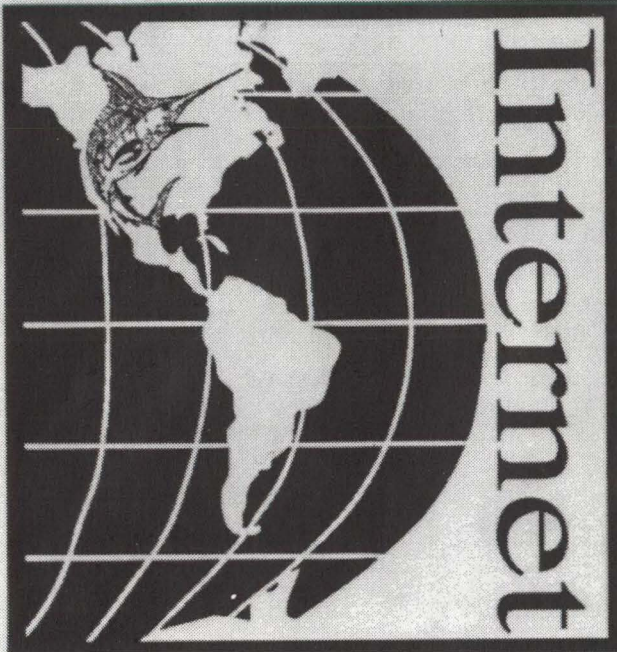


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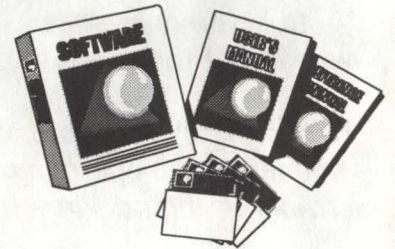
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GULF COAST *Computing*

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Notes from the Staff...

Windows '95. When it comes to what is at the top of the list of the most anticipated things to come in the world of computing — or perhaps in the whole world — it is Windows '95.

Actually, the anticipation has been building for quite some time now. First there was talk, then more talk, about Chicago. Then, there was a name change and beta testing. Now, the final bugs are being worked out and it should be ready for us common, everyday computer-using folks by midyear, if not sooner.

If only for the sake of curiosity, we will rush to see what new goodies and powers it brings our constant friend and sometimes nemesis, the computer. How quickly we embrace its charms will no doubt depend on whether it allows us to not miss a beat in the quest for never-ending computer skill and knowledge.

Many of us are just now getting accustomed to the “wonders” of Windows 3.0 and 3.1. An overwhelming majority still have a long way to go before we master the word processing programs, the spreadsheets, the graphics utilities, financial planners, on-line services, games, etc. — the new world they have opened up for us. We will want strong assurance that it is sometimes OK — and better — to fix something that isn't broken.



Of course, Windows is brought to us by Bill Gates and Microsoft. He “borrowed” the idea of Windows from the graphical user interface that was pioneered by Apple.

Apple, which is now often referred to as a Macintosh, is a study in contrast. Apple usually sells more computers than any other individual computer maker during a given period of time, but overall IBM and IBM-compatible makers garner the largest share of the field.

Apple is hoping that its new computer, the PowerPC, will change all that.

The PowerPC allows a Macintosh to act like an IBM-compatible. IBM, meanwhile, is working with Apple — along with Motorola as a third partner — to make PowerPC's that can act like a Macintosh.

If all that sounds confusing, surprise, it is! Most users think computers should all perform the same basic functions, anyway. Aren't cars, televisions, washers and dryers, cameras, stereos, — you get the picture — basically the same to operate?

What should sell a computer is how well and how long it works — not the material inside (but don't tell Intel that).



Are you ready for another exciting year in the world of computing?

Is your system powerful enough to get all your tasks down quickly. Have you upgraded your software lately to the newest versions. Are you making use of your CD-ROM? Is your modem connecting you to BBS's and on-line services at the fastest speed available?

If you answered no to any or all of these queries, then it may be time to think about getting up the speed. If you don't, then you run the risk of getting even further behind.

Newer systems and software may soon make what you are using currently obsolete. The day is rapidly approaching when BBS's and on-line services only accept callers accessing at 9600 and 14,400 or above.

So keep you mind — and pocket-books — open to the idea of making improvements and additions to your system in the coming year. Our local merchants are, of course, eagerly awaiting your arrival. For our part, we will continue to keep you informed and updates as to the latest news from the wide and diverse world of computing.

Entering our second year, we would be remiss if we didn't give special rec-

ognition and a thank you in appreciation of those advertisers who have supported us, including, Accessible Computers, Binary Data Systems, The Computer Place, Folkware Associates, Pro Tech, Southeastern Computers, Milton Computers, New Horizons, Titan Software Solutions, the Used Computer Attic, Gulf Coast Internet, The Little Computer Company, Karl's Computer Service, Executive Design, The Computer Bar, Labyrinth Games & Comics.



There is another big battle going on, this one involving on-line services. Specifically, the big three -- America On-line, CompuServe and Prodigy.

All three have been striving to make their services better over the last few months. AOL has added a fancy multimedia look and more areas of interest. Direct Internet connectivity is on its way.

The newest version of AOL is attractive and colorful, but not overwhelmingly so. Plus, AOL constantly upgrades it artwork while you are on-line.

Prodigy, too, has improved its look. More importantly, it is easier to use now that a Windows version is out. One neat new feature is sound clips that play short news reports over your speakers.

CompuServe, unfortunately, seems to be lagging behind in terms of user appeal and friendliness. It is too bland compared to the other two and more difficult to find specific areas of interest.

Another big player in the on-line wars is in the offing, as Microsoft plans to start one and build the software into Windows '95.

Near the end of this our, staff began exploring the world's largest “on-line” service, the Internet, connecting to this vast wealth of information through the Gulf Coast Internet Company.

Look for details of our journey in the next (February) issue.

FUTURE SHOCK :

By **RAY BETHKE**

It all started in 1992. Ray Bethke hit the street with a list of predictions for 1993. He hit 100% for the High Tech Industries. On his original list, he predicted that Bill Gates would get married. Before it went to press, he changed his prediction to "Bill Gates would find a love interest." Gates announced his marriage intentions in July and set the wedding for December. Just when it looked like Ray was only going to hit 90%, Bill Gates postponed his marriage! Knowing how Bethke and Gates get along, there is serious reason to doubt that there was any collusion, so the question is ... How'd He DOOO That?????!!!!!! Does his Pentium have a Psychic Socket? When asked about it, this is the tale he told. You can believe it or not...

"It all started back in '77. I was trying to get the Altair 8800 to make predictions for the Dog Track. I was stuck in a traffic jam at Broad and Market when I heard the ad on the car radio. I decided to give it a try. I missed post time anyway. Ever since then the secret to my successful predictions on the wild and woolly world of high tech is that I travel back to my roots. I go home to Philly and then: (Give me some dancin' music, Maestro...) I take my business down to Ma GaRu. You know, the Gypsy with the old PS/2. Runs a little shop down on 24th and Vine selling little bottles of ... Computer Potion Number Nine..."

It gets even weirder after that. In any event ... what follows are Ray's predictions for 1995! (Tongue in Cheek!)

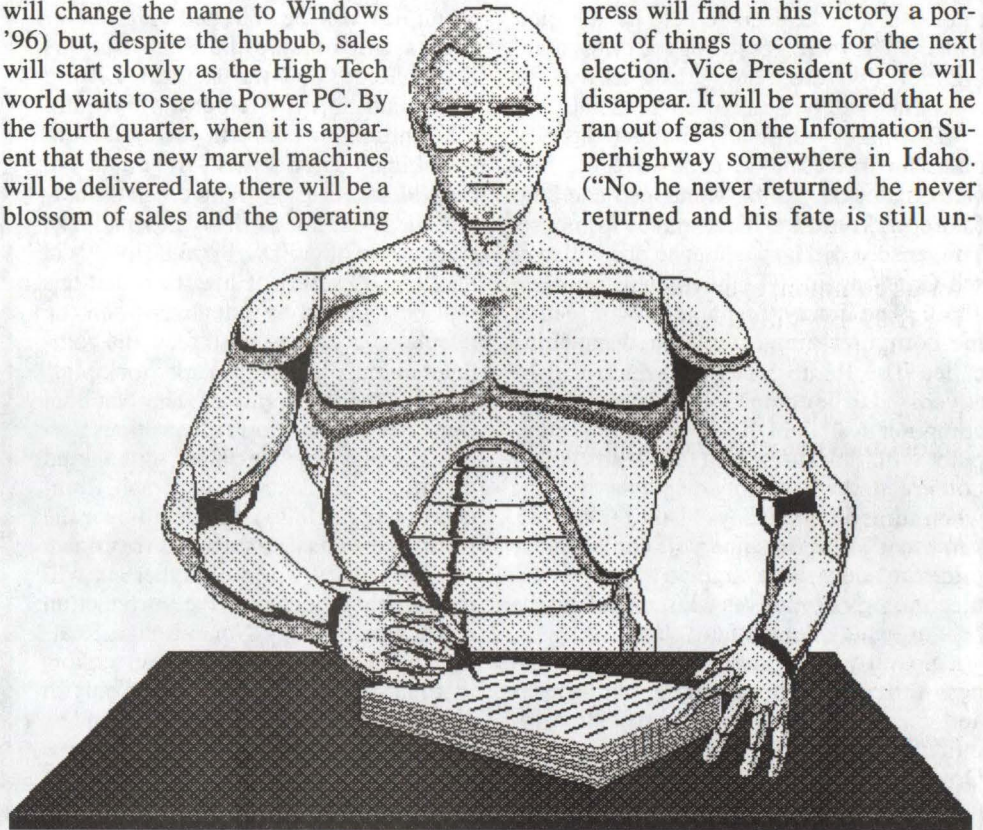
Whole television shows will be preempted to allow the running of better High Tech commercials. Microsoft, AT&T, Intel, Novell, CompuServe, Apple, IBM and Motorola will all be busy becoming movie stars. Ad time will be billed as the Clash of the Titans. One of these companies will team up with Paramount to produce the first, feature-length commercial which will be a box office sell out. The hour glass on Days of Our Lives will be swapped for our favorite Windows icon and AT&T will win the Grammy for Commercial of the Year.

Windows '95 will appear in '95 (or they

will change the name to Windows '96) but, despite the hubbub, sales will start slowly as the High Tech world waits to see the Power PC. By the fourth quarter, when it is apparent that these new marvel machines will be delivered late, there will be a blossom of sales and the operating

What is in store after '94

press will find in his victory a portent of things to come for the next election. Vice President Gore will disappear. It will be rumored that he ran out of gas on the Information Superhighway somewhere in Idaho. ("No, he never returned, he never returned and his fate is still un-



system wars will begin to fade off into nothingness. Magazines will be rife with complaints when users discover they can no longer get to operating system level to clean up the mess when Windows breaks down. Windows Interfaces will begin to appear on other household appliances and General Protection Faults will become an acceptable excuse for being late for school.

Politics will play a heavy part in the High Tech market place. Congress will stall on the Telecommunications Act, but it won't matter. The Communications Giants will take up Grace Hopper's motto "It's easier to ask forgiveness than to get permission" and do what they want anyway knowing that the courts will be so backed up on other high tech issues and cases that they'll never get around to doing anything about it.

Legal firms dealing with High Tech Issues will issue common stock and become a major economic force. Bill Gates will beat President Clinton in a round of golf, and the

learned. He is lost forever in a supercomputer. He's the man who never returned!")

The trend to microminiaturization will reverse itself, as sloppy programming requires more and more storage space. By year's end Packard Bell will put out a new model called the D. Tracy which will allow you to wear your computer on your wrist. The catch will be that the Hard Drive to support it will take up two rooms in your house.

A group of computer hackers will become national folk heroes when they break into the computer systems of the U.S. Treasury, find a link to the Federal Reserve and steal the biggest thing they can find there—the National Debt. The IRS will develop a serious "Glitch in the Machine" when their plus and minus signs become inverted in their software and everyone starts getting huge tax refunds. They will hold a press conference and act confused, defending their

(See Next page)

What is in store after '94... By Ray Bethke

computer program. The Administration, faced with disaster, will announce that they planned the operation all along. The Postal Service will go on a hiring spree looking for trained computer users to help handle their E-mail. They will get so bogged down reading their own electronic junk mail that the snail mail will be delivered weeks late.

Bill Gates will finally complete his new mansion in Redmond and move in. Two weeks later he will be kidnapped and held for a cool \$1 million in ransom by the house. The ransom will be paid but no one will ever see Gates again. The house will move to Tahiti. The Tandy Corporation will reenter the computer arena with a new machine called The Radio Shack-90 which will be advertised to be compatible with ever known computer system in the universe. This computer will look sharp, will talk to absolutely nothing, and will simply display a message when turned on that says "Don't touch me. I'm busy." The machine will carry a hefty price tag and will be targeted at yuppie, antitechnology executives who can't stand the heat or handle the learning curve.

Novell will go out of the network business and begin selling nothing but licenses and certifications. Their classification requirements for CSO (Computer Software Operator) will be adopted by the Congress and turned into the required driver's license for the Internet. IBM will introduce a new marketing technique, rediscovered from the Fuller Brush Company, and begin selling PC's door to door. Intel will solve all of the problems of every computer owner when they begin marketing a PC that has a separate processor for everything. It will be called the Pentium Squared. You find out the price of a Pentium, and multiply it by itself to calculate the cost of the machine.

Internet travellers will be required to put Black Boxes in their computers as the FAA is given government control of the information superhighway. The object will be to allow investigators to hear the obscenities from the user at the keyboard just before each disastrous crash occurs. Navigational problems will be solved by converting all languages in the world to Morse Code uttered with a series of grunts and hand signals, thereby making the universal language "digital". Every Internet site will have to file approach patterns that allow backed up traffic to circle awaiting for access availability. A

new definition will be added to the term "Forever Loop".

The first Movies on Demand systems will be delivered and the Couch Potato Olympics will be initiated. The major events will include the Push Buttons Speed Race, and the Remote Lifting Championships. TV remotes will require 600 buttons to conform to regulation. Four hundred new teams will be added to the NFL to create programs for all the new buttons. Dominoes will be the first Pizza company to offer PDS, Pizza Delivery via Satellite. A series of bizarre mutations will be reported by scientists when the telephone company misdirects the computer output of the New York Stock Market into the input line of The National Gene Bank. A new form of infectious psychosis will plague the planet, as mankind tries to combat electronic junk mail. Computers will begin to explode all over the world as they reach information overload.

The tawdry world of CyberSex will make great strides with the introduction of a new technology, Non-Virtuous Reality. The FBI will finally be given authority to tap into private chat rooms only to discover that they can't find any. And as the year comes to an end, the Universe will suffer one more giant cultural setback as Ray Bethke refuses to do any more predictions based on his horrible performance the year before.

There you have it folks. The unexpurgated visions of the Nostradamus of the Networks revealed in their originally baffling Techno-Babble. Everybody keep this magazine handy. This is a test. The task will be to see just how good a seer Ray Bethke really is. I couldn't believe some of this trash myself so I've already called to challenge some of the more dubious predictions in these pages. I received a searing rebuff for my efforts. He told me he got all of this stuff straight from an ancient 8088. Just goes to show you can't trust anybody anymore. Well, I guess it is a case of Que Sera Sera, folks ... but in the mean time have a Happy New Year! Hope this helps you start it off with a chuckle at the frailty of humanity in the face of technology.

Penetrating Infotainment Market Takes Patience

One thing was clear from the Penetrating The Infotainment Market session at COMDEX — you can make money at "infotainment," but it requires a long-term investment.

In infotainment, the series concept of products is the best idea as it allows for the leveraging of name recognition.

Paul Attard, one of the speakers, said that money can be made eventually, but that the single "quick buck" model product is not going to work. Speaker Jessee Allread agreed, saying that it was a long term endeavor.

The session participants, which included Bob Cramer, Bruce Edwards, and Becki Walker, offered an assortment of advice for breaking into the market, including a commitment to "quality" in the product, and the need to focus a lot of attention on spending money in the marketplace. They also said that today's market is the place for broad interest titles, and not obscure content.

Also identified was the need to allow potential users to sample products before they buy, and to support products with extensive advertising and in-store promotions.

It was also advised to leverage other people's skills to enhance your own, and to consider where the technology is going to be in 18 months when the product is launched.

Another piece of advice was for companies to look at how to cross over markets, for example, from education to consumer. Someone else said that their company had learned more by having products in the "channel" than by doing market research, although they were quick to point out that market research is important.

In referring to price-points in the market and how much a company should charge for their CD-ROM product, a speaker said that at the moment everyone is experimenting with different prices, but the marketplace will establish its own price-point.

High technology now moving toward the home

The Home of the Future session, which took place at the Sands Hotel during COMDEX Fall, highlighted a number of factors driving the move towards the use of high technology in the home. Mary Fallon, moderator of the session, identified the ability to use two-way communications to accomplish home energy management.

Speaker Tricia Parks identified a number of products with varying degrees of household penetration, including: PCs, found in an estimated 30 percent of homes; modems, at 10 percent; online service subscriptions, with six percent; answering ma-

chines, with 57 percent; and security systems, with 15 percent.

She identified a number of factors driving new products to the home, including deregulation in the market, and the demands of the consumer. She also noted that another major factor was industry's need to find new markets.

Echelon's Richard Kagan said that, among other things, the home of the future will have a controlled environment, for example, lights and heat.

He said there were a number of factors creating digital home opportunity. The first he identified as "market drivers," — big

players such as utility, cable and telephone companies, as well as the PC industry. He singled out the latter, saying the "PC industry is the next major driver of the digital home."

Other factors creating digital home opportunity are "enabling technologies," and applications which deliver customer benefits.

Concerning the latter, what is needed is a core technology that is the glue between utilities and applications; that is usable worldwide; is low cost; has guaranteed plug-and-play interoperability; and is transparent to the user.

Intel's Grove Predicts More Integrated PCs

Intel President and CEO Andrew Grove evaluated predictions he gave at the same event three years ago, then went on to make some more predictions about the types of PCs and applications we will soon be using.

Grove gave himself "wins and misses" on a number of predictions that should have come true by now. Among the wins were that Local Bus PCI would be successful, that color notebooks would prevail, that we would have collaborative network electronic messaging, that multimedia would take off.

Among his losses were predictions that we would have plug and play add-on devices, that we would have large wireless networks, and that we would have collaborative networking with multimedia messaging.

He also added that he had missed the tremendous growth in the home PC market, the information superhighway and the processor performance ramp.

Grove explained that new forces were driving the industry, and these could not be ignored by vendors.

In business computing, the driving technology is communications, and in the home/education market it is multimedia, according to Grove.

The Information Highway & New Media

Playing to a packed house at the Sands Hotel, "The Information Highway And New Media" session saw a convergence of two of today's most hyped technologies.

A number of interesting observations were made at the beginning of the session: namely that conventional multimedia is now being expanded with the addition of video, audio, and audio stereo; and that the business world is starting to embrace video more than consumers, because it is willing to pay more for the technology.

Christopher Herot, one of the speakers, said that the information highway is not yet here, and while the big market is in the home, the initial market is in business. He identified a "thorny issue" — how to provide access to the highway.

The "last mile" to the home is "kind of a dirt road" he said, and is not capable of handling video. Early "new media" applications will be in business because it has high bandwidth connectivity and large local storage capacity.

One of the applications identified for the technology was customer support and service, for example, in banking where videoconferencing can connect a customer in one branch with a financial expert in another branch.

Herot pointed to a number of developments likely to occur in the near future: low-cost videoconferencing; ATM (asynchronous transfer mode) to the desktop; and data conferencing bundled with applications and operating systems. In the long term he said that free videoconferencing is likely.

Meanwhile, Creative Labs' Rich Sorkin spoke about "digital convergence," saying that in today's market, edutainment audio technologies are popular in the home market, as is modem use. In the future, he said, the two will come together and a user's PC will become a phone device.

Such a product will offer a full-duplex speaker phone, a fax, a modem, an answering machine, a 16-bit audio card, as well as remote access, where the user can call in over a telephone line and have their faxes and electronic-mail read to them. Eventually there will be a blend of new media technologies imbedded into board chips.

Peter Mason said that some people regard the Internet as the information highway, although it is currently very slow — he added that 14.4 kilobits-per-second is slow for new media technologies.

Broderbund Showcases 4 Titles

Broderbund Software spotlighted its newest multimedia titles at Fall/COMDEX: The Print Shop Deluxe CD Ensemble, The Playroom CD-ROM, Math Workshop, and Kid Pix Studio. All come in Windows versions, some are also for Macintosh.

Company spokesperson Shannon Jamieson told Newsbytes over seven million copies of Print Shop have been sold. This newest package, The Print Shop Deluxe CD Ensemble, is the company's most comprehensive offering. Jamieson says it delivers more graphics, options, and creative ideas for small business.

In The Print Shop Deluxe CD Ensemble five Print Shop Deluxe products are included on a single CD, The Print Shop Deluxe, The Print Shop Deluxe Companion, The Print Shop Deluxe Sampler Graphics, The Print Shop Deluxe Business Graphics, and The Print Shop Deluxe Comic Characters - Amazing Animals Graphics.

Besides these five bundled titles there are an additional 50 bonus graphics that are also included.

Math Workshop is the first in Broderbund's new "intensive" subject matter titles. The program features clever games,

puzzles, and exercises. It is intended to teach children important mathematical concepts and reasoning skills. The program avoids relying exclusively on sometimes boring and often times tedious "drills" and instead emphasizes development of core skills among children ranging in age from 6 to 12.

The third offering is Kid Pix Studio, said by the company to be a "magical" paint and animation program that enables kids to create multimedia productions with the help of video, special effects, cartoons, photographs, music, and sound.

Kid Pix Studio is based on the company's other popular program, Kid Pix. The street price for The Print Shop Deluxe CD Ensemble is \$80, \$40 for the Math Workshop, and \$45 for Kid Pix Studio.

"The Playroom CD-ROM," according to spokesman Eric Winkler, teaches children to tell time with a singing clock, learn math with a friendly robot, and count and read with an encouraging mouse, among other activities. The CD-ROM version is an expansion upon the original Playroom which was introduced in 1989.

The Playroom CD-ROM has a street price of \$40.

Digital Collections Offer World Class Museums

Digital Collections came to COMDEX to unveil three multimedia titles for Macintosh and Windows, which display the art collections of famous museums. The works of Rembrandt to Renoir are found in the "Great Paintings — Renaissance to Impressionism: The Frick Collection" and "Ancient Egyptian Art: The Brooklyn Museum" joins "Masterworks of Japanese Painting: The Etsuko and Joe Price Collection," as the second and third titles.

All of these CDs offer artist biographies and comments from the museums curators as users zoom in on the art or compare paintings side-by-side.

The three titles just released are priced at \$79.95 each and are available direct from the company. The museums are also carrying the CDs in their shops.

Call Digital Collections at 800-449-6220; fax 510-814-6100).

'Innovative' External Battery Runs Notebooks Up To 30 Hours

AER Energy Resources, Inc., of Smyrna, Georgia, is showing at the COMDEX/Fall show this week an external battery that, according to independent tests, can run many notebook computers for six to nine times as long as the internal batteries supplied with the machines.

Of course, there are tradeoffs. The AER Energy Power 220 battery weighs six pounds and is 11 by six by three inches — about as bulky as the notebook itself. And the price tag is \$649, including a charger and a set of

cables that will connect it between 75 and 80 percent of the notebook computers on the market, according to Frank Harris of AER.

Likely buyers for the battery are those who already carry two or three spare batteries for their notebook computers, Harris told Newsbytes.

He said lawyers are buying it to use in courtrooms where they don't have easy access to power outlets or when taking depositions outside their offices. Forestry workers and various corporate service personnel

Chinon Intros Quad Speed CD-ROM Drive

Promising to deliver a quad speed CD-ROM drive which will make the technology affordable to a broad spectrum of users, Chinon showed its new internal quad speed drive, CDS-545, an internal unit. Transferring data at 600 kilobits per second, this new drive utilizes enhanced IDE connectivity.

Speaking to Newsbytes, Scott Elrich, Chinon's marketing manager, said, "We think the introduction of the CDS-545 is the beginning of a day not far-off when quad speed drives are the norm on the desktop.

It really is the only way to take advantage of the full features offered with multimedia products."

While the price of the new drive was not disclosed, Chinon said the company plans to compete with the lowest priced quad speed on the market. Newsbytes notes Plextor quad speed will have a suggested street price under \$500.

Elrich also said the next generation of multimedia products will deliver features only a quad speed drive can handle.

Chinon says a number of analysts have predicted the number quad speed drives will out-ship the number of dual speed drives by the end of 1995.

Along with the 600 kilobits per second transfer, the CDS-545 has a 230 millisecond (ms) average access time, 185ms average seek time, a 128-kilobyte data buffer, CD audio, CD-ROM XA, MPC- 2 and multisession Photo CD compatibility.

The CDS-545 is scheduled to ship in the first quarter of 1995 and Chinon says it will be shipping a Small Computer Interface System (SCSI) model during the second quarter of 1995.

are also using the battery, Harris said.

AER has just announced that Popular Science magazine lists the Power 220 as one of the innovative products of 1994 in the "Best of What's New" awards section.

The Power 220 is a rechargeable, 12-volt, zinc-air battery that hooks up to a notebook computer's AC input jack.

It also has a second output connector that can be used to power a peripheral device such as a portable printer or CD-ROM drive, or a cellular telephone, Harris said.

Moon Valley's Debuts NetCruiser CD, Ill Get It and ESPN Sports Shorts

Attracting the crowds and television cameras, Moon Valley Software debuted NetCruiser CD, Ill Get It and ESPN Sports Shorts. The latter is an online screen saver which delivers updated sports scores from Prodigy.

Kirk Keyes, vice president of marketing for Moon Valley, told Newsbytes, "Our NetCruiser CD is the easiest way in world to get on Internet and learn how to get around."

With a licensing agreement from Netcom, Moon Valley created a CD-ROM which provides how-to information about Internet with 30 minutes of video, a complete copy of Netcom's NetCruiser (an Internet interface and World Wide Web browser), a Yellow Pages of popular addresses and instructions on how to get con-

nected and open an account with Netcom.

Keyes says the entire kit is expected to have a street price of about \$20. That would be \$5 less than the standard charge from Netcom to register through normal channels. Moon Valley says getting signed on and opening an account takes all of 10 minutes and is so simple a child could do it.

Comdex attendees may have been most impressed with Moon Valley's Ill get It program.

The company hopes users will toss out their tape answering machines and plug a small (approximately 3 x 3 x 1) device between the phone line and modem of a Windows-based computer and set up the software for standard answering machine features such as

audible date and time stamp, erase, scan and repeat.

Additionally, the program provides private access codes for voice mailboxes, a phone directory and, most important to the gathered COMDEX audience, a chance for the user to have Ross Perot or Rocky Balboa answer the phone and take a message.

Ill Get It has more than 100 different audio files which use a systems audio board and users may select from a list of impersonated celebrities to answer the phone or create a more traditional, personal response.

This new answering device is shipping next week to most of the popular retail outlets with a \$99 price tag. Users need a 386 or higher processor, 4 megabytes (MB) of RAM, 10MB of hard

disk space, a 2400 baud rate or higher modem, a graphics card (256 color recommended), a CD-ROM drive, a 110 volt power supply, phone line and sound card.

About the ESPN Sports Shorts, Keyes said, "We have developed a very special relationship with ESPN and Prodigy, which has worked extremely well. This \$40 product is one of the first CD-ROM/online hybrid products. We think it is just the beginning of what is possible and will soon be available."

According to Moon Valley, this program may be customized to fit carefully into a user's online cost considerations.

The package includes Prodigy software. A user determines how often the software calls Prodigy for updates.

ISYS Shows Version 4.0 Of Info Retriever

Odyssey Development showed the latest version of its text and information management software at COMDEX. Version 4.0 is due to ship in a month, and offers features requested by users around the world.

Technical director Ian Davies told Newsbytes his company had taken away none of the award-winning features, but had added dozens of new ones, including natural language, WYSIWYG viewers, fuzzy searching and hypertext linking.

In its simplest form the product indexes and retrieves text files. In its most complex it can be used as an engine for third-party products such as CDs that contain formatted text, graphics and data.

The WYSIWYG viewers allow users to view text in the full formatted form, though it is still possible to use a "text-only" view. The fuzzy searching determines which words may be those sought, but which have been damaged, such as by incomplete optical character recognition scanning or keyboarding errors. The product costs US\$435 for the Windows version and US\$395 for DOS.

ISYS Electronic Publisher is a \$1495 authoring tool, also in a new version. It adds features such as index compression, and menu-assisted searching.

The product reads dozens of native file formats to create electronic, online publications such as manuals, guides, handbooks and so on. All ISYS products are capable of maintaining the text or data in compressed formats such as PKZip.

Another new product on show is E-Publish which uses the ISYS engine. It is also an electronic publisher, with an anticipated US price of \$700 for the authoring version and \$50 for each copy of the viewer.

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The Air Combat Series: U.S. NAVY FIGHTERS by Electronic Arts

High-G excitement of modern carrier aviation comes alive in U.S. Navy Fighters, the first in Electronic Arts' new Air Combat Series of high-end PC CD-ROM flight simulations.

Developed by the team that brought us Chuck Yeager's Air Combat, this ultimate dogfighting sim lets players push the envelopes of some of the hottest U.S. combat aircraft including the F-14 Tomcat, F/A-18 Hornet, and the proposed naval version of the F-22 Lightning.

In addition, the player gets the unique chance to "turn and burn" in the SU-33 Flanker, the Russian Navy's powerful fourth-generation fighter-bomber.

The Air Combat Series' line of flight sims is designed to meet the demand for extraordinary graphic performance and sound effects. The first in the series, U.S. Navy Fighters, utilizes features such as digital stereo sound effects, bit-mapped and digitized animations, and — a first — rear view mirrors, to create an environment unrivaled by other flight sims.

For a sensation of seamless air combat maneuvering, multiple resolution modes and graphics options are used to match the processor speed of the user for maximum performance.

Dramatic four-track (four left, four right) digital stereo sound effects create an atmosphere filled with sonic booms, crackling fire, ricocheting cannon shells, and thundering aircraft.

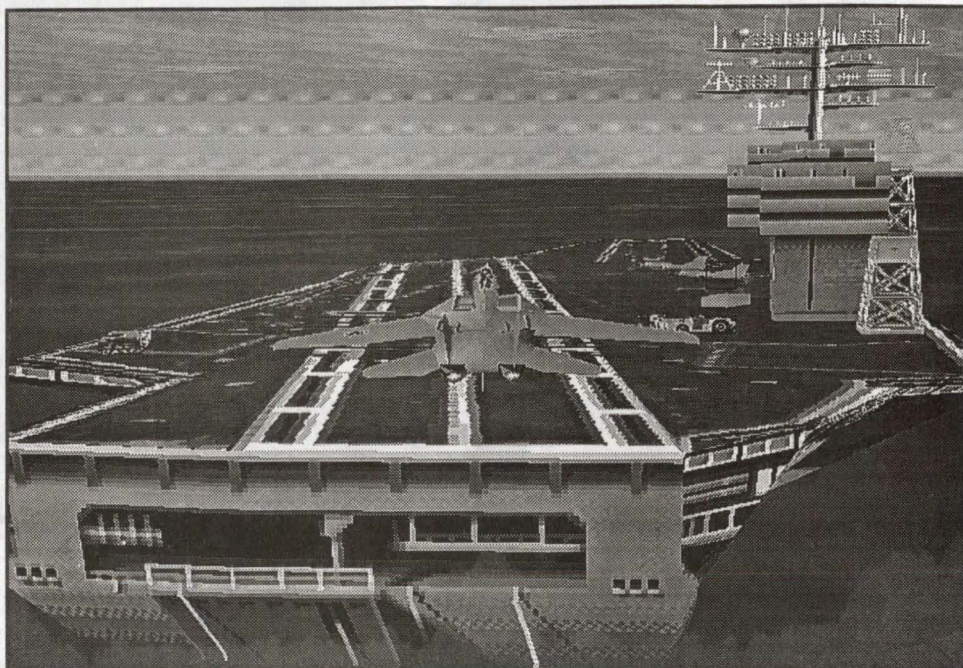
Players hear radio transmissions from shouting wingmen, radar intercept officers, and AWAC's aircraft as they update the pilot on the ever-changing combat situation.

Many other special effects add to the game's realism, including fully texture-mapped aircraft, ships, and land vehicles.

Bitmapped animations are used to create a variety of special effects, including animated catapult officers directing aircraft on the carrier deck; multiple explosion effects digitized from actual video; and ejection/parachute sequences.

The game environment itself features texture-mapped water, sky, coastlines, roads, bridges, trees, and cities, while atmospheric hazing, time of day, and weather effects bring the world to life.

U.S. Navy Fighters is the first flight sim to display rear view mirrors like those used in real fighter aircraft. These provide the pilot



with a quick "check six" for bandits and enemy missiles.

"Track View" simulates a pilot's head rotation — the player's view shifts around the cockpit to keep sight of the enemy target. The player remains in control of the airplane and is free to maneuver in order to bring the target back into his gunsights.

Many players find the Track View provides a more realistic sensation of flight and is easier to use than the "virtual cockpit" of other games. Other player features include "pop up" windows of all the cockpit displays, flight envelopes, and target views.

As the first in a series, U.S. Navy Fighters sets the stage for what can be expected from future Air Combat Series' titles — an enhanced air combat experience, attention to detail, and a knock-your-socks-off good time at the controls.

The storyline of U.S. Navy Fighters, places the player, a Navy pilot, on board the aircraft carrier Dwight D. Eisenhower. Radical nationalist forces in Russia have ousted Boris Yeltsin and are now leading a crusade to absorb ethnically Russian areas in neighboring republics.

When the United States agrees to protect Ukraine, a recent ally in the region, the Eisenhower is deployed to the Black Sea. The player must use his skill and judgment to repel the Russian invasion using all of the aircraft in his carrier wing.

In the course of a 50 mission campaign, he will experience a wide variety of fighter and strike missions: combat air patrols, escort missions, anti-ship and anti-tanks strikes, close air support, suppression of enemy air defenses, and more.



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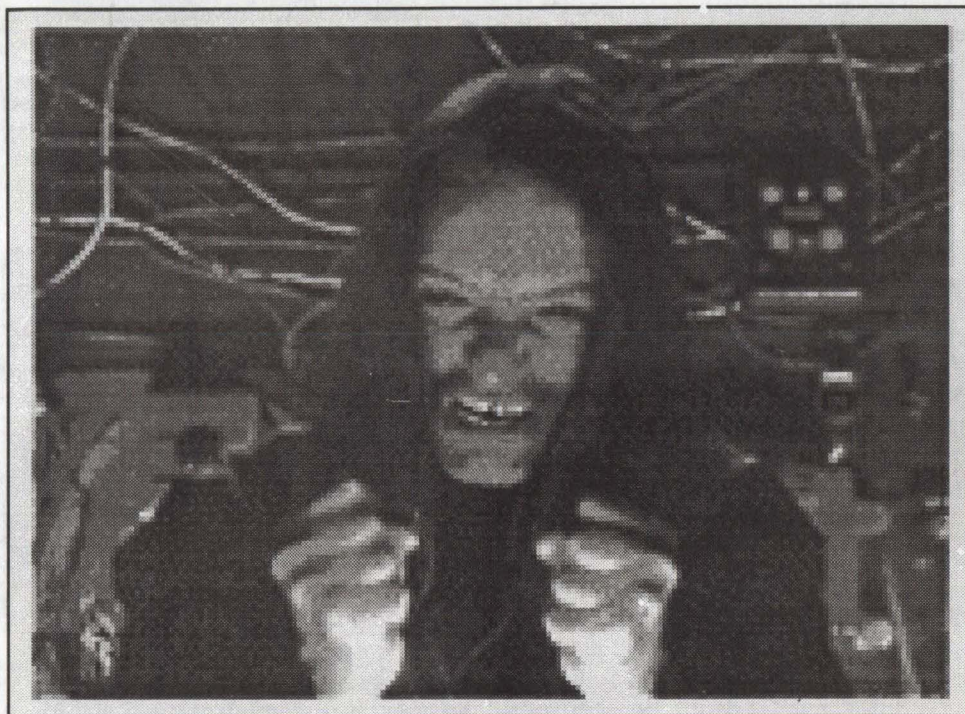
BLOWN AWAY:

Unlike anything you've ever seen!

BLOWN AWAY is unlike anything you've ever seen before. It's YOU face to face with an evil genius. It's YOU against the ticking clock. It's YOU facing explosives timed to explode at your first misstep. And it's two dozen of the most insidious, mind blowing games ever invented — all in one explosive package!

ing and out-maneuvering him can you move on to the next challenge. And with each success, he's waiting with another, more difficult obstacle. It's a fiendish vendetta that continues until your final face-to-face meeting.

Developed by Imagination Pilots in partnership with MGM/UA, "Blown Away"



BLOWN AWAY takes live action CD-ROM game playing to an entirely new level. To survive, you must master each of the individual time-based challenges found within the various environments.

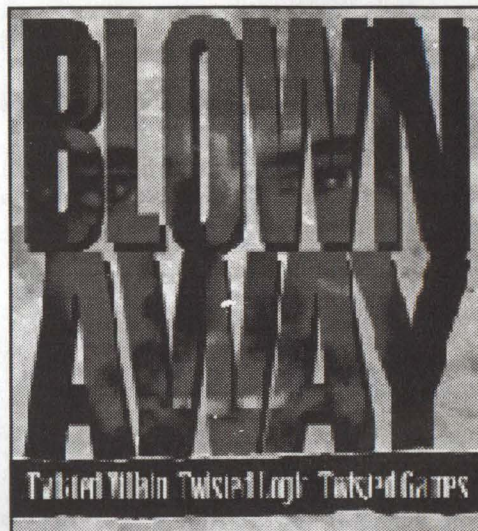
To win, you need careful planning and strong nerves. Practice helps, but continually randomized solutions mean BLOWN AWAY is never the same game twice. It helps to be quick, but it pays to be smart.

BLOWN AWAY doesn't give you time to sit back and relax. Your enemy is always one step ahead of you. You can't outrun him. You can't overpower him. Only by out-think-

promises to keep the player glued to his seat as he goes head-to-head against Justus, a diabolically ingenious disciple of Gaerity, the bomb master featured in the original movie.

The player assumes the role of Jimmy Dove, a political renegade-turned-cop and member of the elite Boston bomb squad, who must overcome 22 mind-twisting challenges to save his family and friends from Justus.

Throughout the pressure-packed race to find and rescue his loved ones and win the ultimate challenge, the player must outsmart Justus, who has wired explosives to an intense mix of puzzles, games, clues, mazes



and other obstacles. Justus is ever-present and always one step ahead of the player, taunting and mocking him to increase the tension and raise the player's blood pressure.

In "Blown Away," the player must maneuver through 12 photo-realistic environments while he races against the clock to dismantle bombs and free the hostages, all of whom appear in full-screen digitized video sequences. That's right we said, "FULL SCREEN VIDEO."

The 360-degree first-person perspective, which allows the player to fully view areas that might contain clues or potential dangers, also enhances the game's realism. Each rescue mission is loaded with problems — after finding a hostage, the player must work through a series of obstacles to release him before any one of the detonators is triggered. The player must be quick and smart to succeed.

"Blown Away will challenge the player to use all of his resources — knowledge, memory, speed, dexterity, concentration — to defeat this extremely intelligent, but highly sinister master of explosives who has just one goal: to destroy everything and everyone that's of importance in the player's life," Howard A. Tullman, chief executive officer, Imagination Pilots, said. "The player's best weapon is his ability to keep his wits about him in extremely intense situations."

BLOWN AWAY is priced at \$53.95 + shipping charges. Call 1-800-778-0722.



Wait is over: 'UNDER A KILLING MOON' now available

Exciting era of interactivity!

The buzz has been building since the Summer of 1993: that Access Software's forthcoming "interactive movie" was really something special. Now it's here, and with the release of *Under A Killing Moon*, Access ushers in a new and exciting era of interactive entertainment.

Drawing upon the technical expertise that has made it's "Links 386 Pro" simulations the standard by which all other golf games are measured, not to mention the talent of four Hollywood stars James Earl Jones, Brian Keith, Margot Kidder, and Russell Means and some of the best writing and composing talent now working in the PC gaming field, Access has created the first "virtual world" in the history of computer entertainment.

Employing cutting-edge graphic tech-



niques, Access has created scenes of unparalleled realism — the player not only can move through any location in the game, he or she has complete 360-degree freedom to explore that location from a first-person view that delivers a true you-are-there sensation.

When game-reviewers saw a rough cut of this product, during the Autumn of 1993, their responses were overwhelmingly positive.

Danny Atkin of Compute Magazine

Anticipated by many!

wrote: "it combines the best elements of movies and PC games ... it literally pulls you into the screen." William R. Trotter, a columnist for P.C. Entertainment and PC Gamer wrote: "lots of games push the envelope ... *Under A Killing Moon* blows it to smithereens."

Rarely has any PC game been anticipated so eagerly by so many. And now it's here, inaugurating a new standard of realism and true interactivity. *Under A Killing Moon* is available now, wherever fine software is sold, on FOUR CDROM discs, for a suggested retail price of \$99.95.

For more information contact Access Software, 4910 W. Amelia Earhart Dr, Salt Lake City, UT 84116.



A Constructive Alternative to Violent Games: Two New Sesame Street Titles Released

"I prefer programs that encourage creativity, not violence," says Jerri Drake, president of educational computer consulting firm, Little Bytes. Drake should know. She consults to thirty-five educational programs in New Jersey, and is an expert on how children learn with software and video games.

For parents who want a positive alternative to violent video games, interactive and engaging electronic learning programs from Sesame Street might be just the ticket.

One video game, *Sesame Street: Counting Cafe* features Grover (as a waiter) and other popular Sesame Street characters such as Bert and Ernie and Snuffleupagus. Children learn pre-school math skills by helping Grover navigate an obstacle course to find food for his hungry customer. As they help Grover, they learn to add, subtract, and group numbers.

Children step right into the world

of Sesame Street with *Sesame Street: Numbers*, for the PC and the 3DO game machine. With Elmo as tour guide, children can visit the Count, Bert and Ernie and Big Bird, as well as chat with them on the telephone.

Says Erik Strommen, Ph.D., and director of research at Children's Television Workshop, "The idea that learning is work is a peculiarly adult notion. Children don't make a distinction between learning and play. As they play and explore, they learn."

Children's Television Workshop's 26 years experience of researching and developing products just for kids have been put to use in these Sesame Street products. As part of the development process, both *Sesame Street: Counting Cafe* and *Sesame Street: Numbers* were thoroughly tested by children.

As a result, says Strommen, "Most children will get more out of the Sesame Street electronic games than other more violent games, because the Sesame

Street games are designed for children, and even tested by children. Kids who play are going to feel good about what they can accomplish because the games are tailored to their game-playing abilities."

Parents and educators looking for interesting alternatives to violent electronic games should seriously consider *Sesame Street: Numbers* and *Sesame Street: Counting Cafe* for their children.

These titles are the first in a series of new Sesame Street titles being developed by Children's Television Workshop, and produced by EA*Kids, a division of Electronic Arts. Look for other titles in 1995!

Sesame Street: Numbers and *Counting Cafe* were developed by Children's Television Workshop and are published by EA*Kids, a division of Electronic Arts.

Electronic Arts, 1450 Fashion Island Blvd, San Mateo, CA 94404.

Accolade kicks off 'Live Action Football'

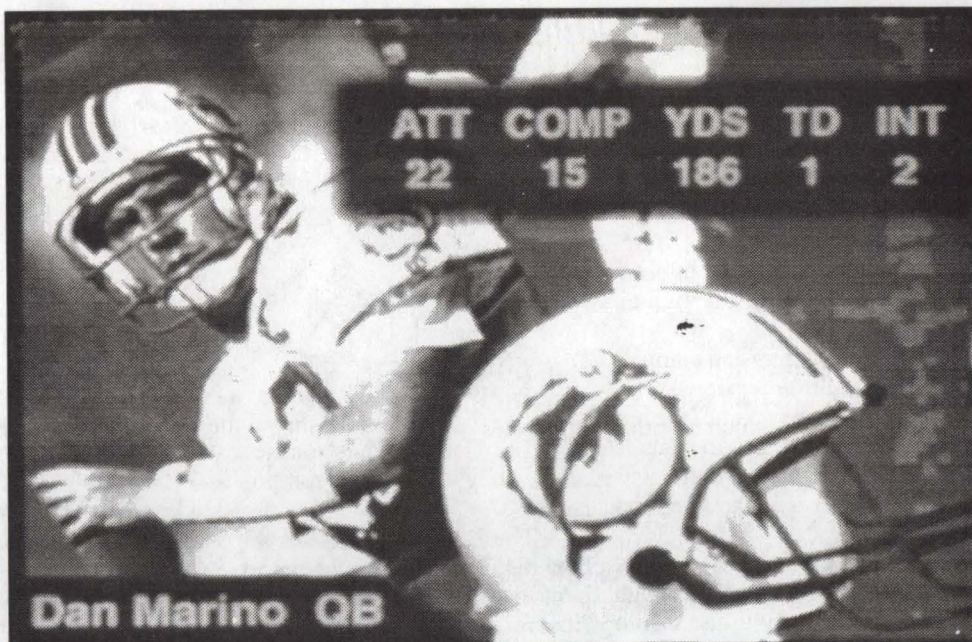
Sport Accolade, recognized as a leading publisher of sports simulations, has released Live Action Football, for IBM PC Windows CD-ROM is. Officially licensed by the National Football League Properties and the NFL Players Association, Live Action Football (formerly called All-Pro Video Football) simulates an All-Pro game utilizing the names and statistics of 52 players from the NFLPA and the American and National Football Conference logos.

The product takes a giant leap forward in bringing real video to the personal computer by being the first to incorporate originally created video footage into an interactive football game. The game will also feature play-by-play and color commentary from Al Michaels and Pat Haden. Live Action Football will be available in November with a suggested retail price of \$69.95.

In Live Action Football, up to two players "coach" a team of NFL players, based on recent All-Pro teams from the AFC and NFC. Coaches select plays just like a real game. The results are then played out in full-motion color video, using original footage shot specifically for Live Action Football.

"Numerous attempts have been made to create football simulations using existing stock NFL footage, but these products have been limited by the content of the available film clips," said Thorson.

"By staging and filming more than 600 actual football plays using real professional football players, Live Action Football offers virtually unlimited play combinations." Sport Accolade contracted the Orlando Predators of the Arena Football League to portray the NFL stars for the product.



In this coaching style football game, the extensive computer artificial intelligence will learn the coaching tendencies of each player and adjust its game play and strategies accordingly.

Once a player's name is logged in, the computer will remember how he played from previous games and adjust accordingly, forcing coaches to change their strategies often.

The instant replay feature provided allows players to review memorable plays using the VCR-like controls.

Live Action Football offers a familiar TV-style interface with colorful graphics and information boards, including authentic

player stats. The game will keep track of standard player and team stats from a game or a series of games. The product also provides players with three different computer skill levels and three game lengths: 60-minute full game, "Final Drive" mode, and sudden-death overtime.

Sport Accolade has also announced its plans to create a franchised line of computer sports products using the title "Live Action." This line of sports titles will use live action footage created and staged specifically for use in the games.

Accolade, 5300 Stevens Creek Blvd, San Jose, CA 95129 408-985-1700; Fax: 408-246-1053

Interactive NBA Basketball With Daily Updates

Microsoft Corp. has introduced an interactive multimedia program for NBA fans that provides daily updates of scores and statistics, as well as historical data and feature stories about the game.

Microsoft Complete NBA Basketball comes on CD-ROM and lets users with modem-equipped personal computers download the daily scores as well as peruse information about players, teams, season summaries, and historical information through images, audio clips and video highlights.

There is also a trivia game that tests your knowledge of the game. You can play the game on your own or against other players. An arena style scoreboard, which displays the user's name, keeps track of the score and the player's field goal percentage.

Microsoft said the game has a "Players" section that contains an NBA roster that has every statistic of every player ever to wear a uniform for an NBA team since the league's launch in 1946. There is also a list of all the NBA arenas that shows seating charts and ticket prices.

Microsoft estimates the street price of Microsoft Complete NBA Basketball will be \$49.95. For the online electronic service called Microsoft NBA Basketball Daily, US users add \$1.25 each time they go online to download the day's scores. In Canada it is \$2.25 per day's issue. The electronic newspaper also includes feature articles written specifically for Microsoft by well known sports writers.

Microsoft recently released a similar program for baseball fans called Microsoft Complete Baseball that also provides the online scores and feature stories about the national pastime.

THE ULTIMATE HUMAN BODY CD-ROM

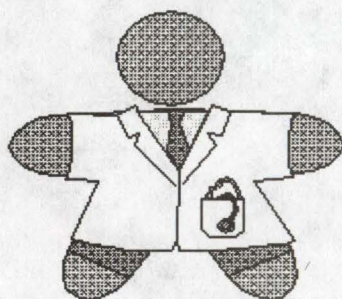
*Expands Our Understanding
of What Makes Us Tick*

Most of us acquired a one-dimensional understanding of the human form and its functions through limited biology texts. **THE ULTIMATE HUMAN BODY** is a breathtaking interactive journey inside the human body.

Both entertaining and compelling, this multidimensional CD-ROM names every part of the human body, and through visuals and sound, displays where it is situated, what it looks like, and how it works.

THE ULTIMATE HUMAN BODY explores anatomy through three intuitive, easy-to-use search paths:

- ◆ The Body Machine explains how the body carries out complex processes such as sight and hearing, using interactive questions and answers.



- ◆ The Body Organs focuses on the body's individual components.

- ◆ The Body Systems shows how the organs work together to perform important functions, from respiration to reproduction.

THE ULTIMATE HUMAN BODY is an exceptional blend of more than 1,000 high-quality images, featuring over 700 main screens and pop-up windows, and over 100 illuminating animations.

Nearly 45 minutes of sound enhance 90,000 words of spoken and written text.

"I wish this technology had been available when I was learning about anatomy," says John Sargent, CEO of Dorling Kindersley Publishing, Inc.

"This CD-ROM program is dazzling to behold and presents a comprehensive understanding of how we are made and operate."

A powerful learning tool, **THE ULTIMATE HUMAN BODY** entertains and instructs the user, bringing the world of human anatomy thrillingly to life.

THE ULTIMATE HUMAN BODY, DK Multimedia, Suggested Retail Price: \$79.95.

Dorling Kindersley Ltd., 95 Madison Ave., New York, NY 10016, 212-213-4800, fax 212-213-5240.

CNN Time Capsule 1994

Vicarious, Inc. is proud to announce the upcoming release of the CNN Time Capsule 1994, in time for the holiday season. The CNN Time Capsule is a multimedia yearbook, the second in an award-winning series.

This year's CNN Time Capsule is rich in content and graphics, including text and visuals from U.S. News & World Report and other sources. The ground-breaking user interface allows extensive cross-referencing and access to stories alphabetically, by category, by date, or by CNN's ranking of importance.

The average street price will be approximately \$29.95.

Vicarious, 2221 Broadway, Ste 205, Redwood City, CA 94063.

MY FIRST INCREDIBLE, AMAZING DICTIONARY

Sound and Animation Enhance CD-ROM Version of this Language Resource for Kids

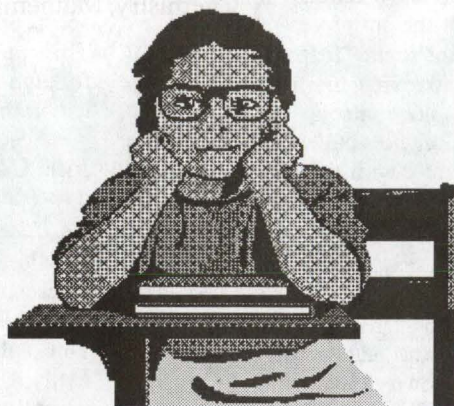
Dorling Kindersley's best-selling book *My First Dictionary* has quickly established itself as a colorful and fun introduction to 1,000 words and their meaning for young children.

Dorling Kindersley's CD-ROM version, **MY FIRST INCREDIBLE, AMAZING DICTIONARY**, creates an even more visually stunning learning resource for children ages 3 to 7.

Here language is enhanced through spoken words displayed in brilliant color, with clear text, pictures, sounds and animation.

Each word and definition in this entertaining interactive program is self-pronouncing.

Easy to use even for children who cannot yet read or have never



used a computer, **MY FIRST INCREDIBLE, AMAZING DICTIONARY** includes:

- 1,000 definitions
- 17,000 words
- More than 1,000 illustrations
- Over 1,250 screens and pop-up windows

- An incredible 1,000+ animations

- More than four hours of audio

- Enhances comprehension with synonyms, word groups, and other vocabulary elements to make learning fun.

Children can roam easily from word to word at their own pace. For instance, when calling up the word airport, the dictionary defines the word, and displays airplanes idling at an airport terminal.

When the mouse is positioned on a plane's wing, a new window opens with a bird offering another definition of wing.

Every detail of the dictionary

is geared toward stimulating the imagination of children, from the extra-large close boxes on the hundreds of pop-up windows to the built-in games and special features.

Simple but powerful navigation controls allow free access throughout the word base.

"The CD-ROM format is an ideal way to introduce a dictionary to a child," says John Sargent, CEO of Dorling Kindersley Publishing, Inc.

"The pictures and sound instantly engage the mind of a child, and help to unlock the mysteries of language."

Suggested Retail Price of this CD-ROM educational tool is set at \$59.95.

Dorling Kindersley Ltd, 95 Madison Ave., New York, NY 10016, 212-213-4800.

Explore 'The Way Things Work' in Interactive Multimedia

For curious minds of all ages, Dorling Kindersley Multimedia and Houghton Mifflin Company are launching The Way Things Work on CD-ROM by David Macaulay.

Included in a line of edutainment titles, this captivating CD-ROM features the eye-catching graphics that made the book of the same title an instant best seller.

Published by Houghton Mifflin in 1988, The Way Things Work has sold 1.7 million copies in the U.S. alone. The CD-ROM offers the advantage of presenting information in a multimedia format, complete with animation, audio, text and video.

A fascinating introduction to the

world of machines and technology, the multimedia edition of THE WAY THINGS WORK brings David Macaulay's printed pages to life through sophisticated animation and audio.

An extremely friendly interface allows children, seven to seventy, to explore at their own speed. From telescopes to telephones, from laser to light bulbs, THE WAY THINGS WORK brings 200 inventions to the screen with a click of the mouse.

Visit the "Inventor's Workshop" and simply click on any object to find out more. Or take a closer look behind the principles of science with David Macaulay's lovable character, the Woolly Mammoth, as he stars in 20

"Mammoth Movies."

THE WAY THINGS WORK allows children to take a multimedia journey through a timeline of inventions, dating from 7,000 BC to the present and covering humankind's greatest scientific discoveries.

A "Who's Who" of Inventors offers biographies of great scientists and historical inventors. A multimedia masterpiece, THE WAY THINGS WORK combines over 70,000 words, more than 1,000 illustrations, over 1,500 screens, 300 animations, 20 "Mammoth Movies," and more than 60 minutes of audio.

Dorling Kindersley Ltd., 95 Madison Ave., New York, NY 10016

STOWAWAY! Recreates Life on 18th-Century Fighting Ship

DK Multimedia, a division of Dorling Kindersley Ltd. is introducing a multimedia version of its best-selling book, Stephen Biesty's Cross-Sections: Man-of-War, for the CD-ROM platform, titled STEPHEN BIESTY'S CROSS SECTIONS STOWAWAY!

With over 250,000 copies in print, Stephen Biesty's Cross Sections: Man-of-War was selected as a Best Illustrated Book of 1993 by the New York Times, and was the #2 best selling non-fiction book for the 1993 fall season.

The highly-visual CD-ROM allows people to explore an 18th-century British warship. As they tour the vessel from bow to stern, viewers can interact with characters from history and search for a hidden stowaway.

With hundreds of illustrations, 150 animation sequences, 20,000 words of text and over 400 screens and pop-up windows, STEPHEN BIESTY'S INCREDIBLE CROSS-SECTIONS STOWAWAY! features the intricate detail and artistic quality that has become a signature trademark for artist Stephen Biesty. The interface is graphical and user-friendly.

Throughout STOWAWAY!, a game enhances the entertainment value of the program.

A stowaway is hidden in each of the

scenes ten cross-sections and must be found in all his hiding places to successfully reach the game's conclusion.

The animations, narrations, and sound effects create an authentic impression of what life was really like aboard the Man-of-War, one of the most feared fighting ships of its time.

Complete deck plans and cross-sectional views of the ship allow for easy navigation throughout the entire vessel, from the upper decks to the musty depths of the hold.

Zoom into individual scenes or cabins to meet the crew as the ship's characters come to life with the click of the mouse.

Read excerpts from crew members journals, or have the crew tell you about everyday life aboard the ship. The captain, boatswain, cook, gunner, surgeon, and many more tell their stories with over two hours of narration and sound effects.

Intricate illustrations and animation bring history to life detailing the battles, heroism, and hardship that the ship and its crew lived through. Fascinating facts and built in glossary add to an educational experience that is entertaining as well as informative.

Suggested Retail Price for STOWAWAY! is \$59.95

Eyewitness Encyclopedia of Science Now on CD-ROM

THE EYEWITNESS ENCYCLOPEDIA OF SCIENCE provides children ages ten and up with a captivating science reference source that is as entertaining as it is educational.

Combining the power of full-motion video, audio, full-color photographs, text and animation sequences, THE EYEWITNESS ENCYCLOPEDIA OF SCIENCE offers instant access to over 200 entries, organized into five major categories: Chemistry, Mathematics, Physics, Life Sciences, A Who's Who of Science, plus a multimedia periodic table and an interactive "Quiz Master."

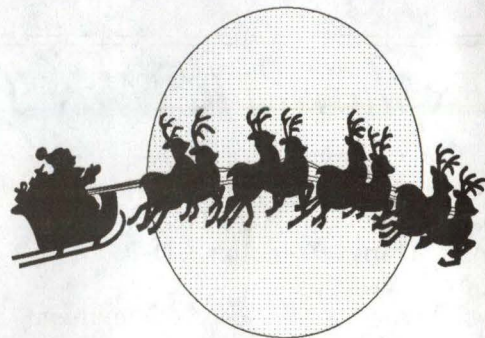
A quick-access A-Z index allows children to cross-reference any topic, providing clear explanations about the integration of science and technology into everyday life, while multimedia biographies offer great insight into the scientists behind their discoveries.

"The CD-ROM is designed to entertain and educate, while allowing children the freedom of exploring the world of science at their own pace," explains John Sargent, CEO of Dorling Kindersley Publishing, Inc.

"Children in this age group are captivated by highly visual information. We've created an educational resource that is as amusing, entertaining, and as graphically pleasing as any video game. This is where the true potential of multimedia lies — as an ideal platform to educate and inform, while stimulating a child's senses."



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Apple combines Mac & Windows

Strengthening its commitment to provide cross-platform compatibility between the Macintosh and Windows/X86 platform, Apple Computer, Inc. announced the Power Macintosh 6100 DOS Compatible system and DOS Compatibility Card for Power Macintosh 6100 and Macintosh Performa 6100 Series.

These new products combine the exceptional price/performance value of Apple's RISC-based Power Macintosh with the capabilities of a Windows- and DOS-based personal computer.

In addition, the products offer customers the ability to easily integrate Macintosh into mixed computing environments as well as allow x86 PC users to bring their favorite DOS/Windows applications with them as they move to the Macintosh platform.

Customers can run a full range of Macintosh, DOS and Windows applications powered by a PowerPC 601 microprocessor and a 486 DX2/66 microprocessor, the Power Macintosh DOS Compatible system runs more

applications than any other personal computer on the market.

It runs the widest range of mainstream PC software -- including DOS, Windows, and Macintosh applications -- in addition to the more than 360 native applications which have been optimized for Power Macintosh. Ideally suited for home, education, and business customers who work in mixed computing environments, these products enable users to easily switch between the Macintosh and DOS computing environments with a simple keyboard command.

For example, customers in small businesses or home offices have the flexibility of working with a full range of programs and files to meet their clients' needs.

At home, children can run Macintosh programs that they use at school while their parents can work on DOS/Windows files from work. Medium and large businesses have the ability to connect to the corporate network to utilize printing and file resources.

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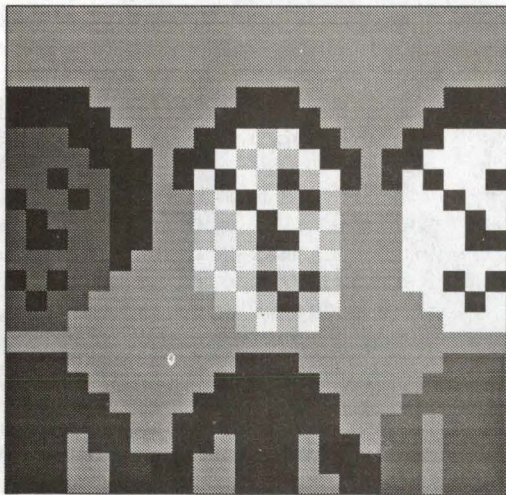
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INTERNET SPAWNS NEW PRODUCTS

By PAUL DEGROOT

Software and communications companies are climbing aboard the Internet bandwagon, but from many different directions. And few of them know, with any certainty, which direction the bandwagon is going.

While the Internet was hardly mentioned at the 1993 COMDEX, about 30 vendors were boasting an Internet product of some kind at the 1994 show. The products fall into three main categories:

■ **Hardware** for connecting local networks to the Internet. These are typically network hubs and routers and communications services such as ISDN (Integrated Services Digital Network) hardware which runs over widely available digital telephone connections.

Most are standard networking devices which treat the Internet as just another network. However, corporate interest in the Internet is expanding rapidly, and vendors want to position their products as suitable for Internet connections.

■ **Internet access providers.** Ordinary users cannot normally connect directly to the Internet. They must hook their computers to "host" computers on corporate or institutional networks which are part of the Internet, or to a commercial company which has purchased an expensive Internet connection, and re-sells access to the Internet through that connection.

■ **Internet access software.** Until recently the Internet presented an unfriendly face to the user. Most hosts ran the Unix operating system. Users had to know basic Unix commands, and deal with a variety of host programs to navigate "the net."

In 1983, however, a program called Mosaic, developed at the National Center for Supercomputing Applications (NCSA), revolutionized Internet access by providing an easy-to-use interface, complete with the ability to display images, fonts and even movies and sound.

Mosaic has spawned a herd of imitators which provide a graphical way to "browse" the World Wide Web (WWW), a network of computers linked across the Internet around the globe.

Most of the new development dollars are going into the last category, which has a challenging wrinkle: NCSA Mosaic is available

for free on the Internet. That poses a substantial obstacle to companies who would like to sell a browser. Quarterdeck, best known for its DOS-based memory managers, previewed at COMDEX a WWW browser called Normandy.

The Normandy suite also includes software which gives word processors such as Word and Wordperfect the ability to create WWW documents with embedded graphics and links to other systems.

Another brick in the Quarterdeck Internet highway is host software which will run on Windows 3.1. Existing Mosaic products require the host to use Windows NT, Unix or a Macintosh.

"We will continue to play in the utilities business, but we are convinced this is a big, big opportunity," Quarterdeck's chief operating officer, King Lee, said in an interview.

Internet Works, from BookLink, has yet to hit retail shelves, but the company was purchased for \$35 million the week before COMDEX by America Online. AOL may use Booklink's sophisticated Windows-based WWW browser as part of its own Internet offerings. Microsoft has also licensed the code for Internet Works, a BookLink official said.

One of the hottest browsers on the Internet is Netscape, from Netscape Communications, which hired Mosaic author Marc Andreessen. Designed especially for people who access the Internet over modem connections, Netscape shows text almost immediately, and will display images as they are downloaded from the network. Most other browsers wait until the whole page has been received before displaying any of it.

In spite of Netscape's popularity, "We don't think Web browsers are the place to make money," says Netscape's director of communications, Rosanne Siino. Like Mosaic, Netscape can be downloaded for free. A commercial product due to hit store shelves next month at a \$99 list price will contain the same code, but also a printed manual and technical support.

Netscape is pinning commercial hopes on its WWW host software (\$1,495-\$5,000 per server), which it claims is not only more efficient than Mosaic at handling large numbers of connections, but which has strong security and encryption features when used with the Netscape browser. Those security

and encryption features will ease Internet commerce, because users will be able to pay by credit card, without worrying that card numbers will be intercepted and read by others.

Netscape's security features won it an agreement Nov. 11 with Electronic Funds Services, the world's largest credit card payment processor. Three banks — First Interstate, Norwest Card Services and Old Kent — have announced that they will offer Internet-based transaction services for businesses which want to accept online payment and which use Netscape's Commerce Server software.

Another company which agrees that Web browsers are not likely to be profitable is Turnpike Ltd., of Britain, which has developed sophisticated software for offline processing of Internet newsgroups and e-mail, but has no plans for a Web browser.

"What's the point of building something that's available for free on the network?" says Richard Clayton, of Turnpike. Turnpike's \$125 product offers sophisticated "threading" of newsgroup messages, enabling users to follow a sequence of messages, split a thread in two when the subject changes and mark the most interesting threads so they will float to the top every time.

One new product offers to improve the look of the Internet for people who still use older Unix "shell" accounts. The latest version of DCA's Crosstalk for Windows comes with configurable buttons which can be used to automate tasks such as Internet file transfers and telnet sessions. Users can easily create or modify the buttons to suit their needs and the systems they access.

At the other end of the technical complexity spectrum is DirecPC from Hughes Network Systems. It employs both land lines and high-speed satellite signals to deliver blistering Internet performance. Users connect to the Internet via modem, but signals back to the user's PC are routed through a 12 gigahertz signal coming from the Galaxy 4 satellite. The system requires a \$1,495 satellite dish, but can deliver 12 megabits per second, and transfer 90 megabytes of data in a minute.

Several companies are playing two roles: software developer and Internet access provider Phoenix Technologies, better known

for its BIOS chips, has developed Internet Express in connection with the Delphi online service to provide a comprehensive package for users. With more than 850 local access numbers, the software can be used anywhere in North America. Cost to the user is a competitive \$23 a month for 20 hours of Internet access, and \$1.80 each for additional hours.

Netcom On-line is aiming at the huge potential market of home and education users who are put off by the Internet's chaotic organization, says President Don Hutchison. Using Netcom's proprietary Netcruiser software, users connect to Netcom's Internet host, which presents them with a point-and-click interface to Internet resources.

The company currently has nodes in more than 50 North American cities, and plans to expand to Canada next year. People in areas not served by a Netcom node can access it through an 800 number.

Netcom aims to build its business on volume, and charges among the lowest rates in the business for Internet access, Hutchison said. Depending on where you buy it, Netcruiser's price ranges from \$10 to free, and 40 hours of prime time (9 a.m. to midnight) plus unlimited weekend access costs only \$19.95 a month.

Sled Offers Internet E-mail Address Directory

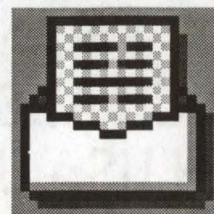
Sled Corp. claims that the Four11 Online User Directory answers the cry of many Internet users: "How can I find someone's electronic-mail address?" The company says that basic access to the directory, which consists of almost half a million Internet users, is provided as a free service to the Internet community.

Sled spokesperson Michael Santullo told Newsbytes that the interactive directory is easily searched by e-mail, through the use of e-mail forms, or the World Wide Web, by using browsers such as Mosaic or Lynx.

The search features include "search by name," "search by location," "search by old e-mail address," "Group Connection," and "wildcards."

Additionally, A Group Connection feature makes it possible to enter searches for: "Bob at Garden Computers," "Jane in New York City who graduated from Tuckahoe High School," or "Paul who's going to Columbia University".

In addition to free services, the company says users can obtain a \$20 yearly membership which provides additional benefits, including: an expanded directory listing, search agents, a personalized display message, and a URL (uniform resource locator)



hot-link to a personal Web page.

A personalized display message can be useful for spreading the word on consulting services, tell friends that you have

moved, or make other public announcements.

Membership also includes PGP encryption certification and storage services. Members who provide proper identification can have their PGP public key signed with the Sled Silver Signature.

Signed keys are added to the key owners' directory listing and can be quickly retrieved by other Internet users through either e-mail or the Web.

These keys, actually small data files, are used to send private messages and verify digital signatures. The combination of an Internet-wide directory with a PGP key server makes it possible to quickly find someone, obtain their key, and send them a private message, claims the company.

To enter a free listing and search the directory, send an e-mail to free@Four11.com, or connect to the Four11 Web page at URL <http://www.Four11.com/>.

Black Box On-Line Internet Service

Black Box Corporation has launched its Black Box Catalog on the Internet. The firm says its new Internet shopping service, named Black Box On-Line, will enhance the famous high-tech catalog with direct on-line product information and support.

The firm's Vice President of Marketing Doug Goodall told Newsbytes the on-line catalog is not yet complete, but products are being added "literally every day."

He said the firm hopes to finish populating the service with all current US products by January 1. International versions of the catalog, in native languages, will be added after that. The firm operates in more than 50 nations.

Goodall emphasized that the firm's technical support functions will be fully carried over from its telephone support center, which has long been regarded as a "trick of the trade" resource among engineers and technicians.

"We wanted to lead with a legitimate reason for people to want to come into our server, even if they weren't looking to buy a product," he explained.

"It dawned on us that one thing we've got a reputation for in the industry is expert technical support. We've got about 50 engineers who do nothing but take phone calls all day from customers and non-customers, and answer technical questions."

He said Black Box had developed a huge technical database of problems, "solutions," and customer case studies as a result of its continuing customer support activities.

He added, "If we could package all that as a very deep and broad technical library, that would be some value that we could offer to the 'Net.' People could come into our server and learn, for example, from a high level down to a detailed level, what the term 'Ethernet' means.

How was it developed? Why was it de-

veloped? How do you use it? Why do you install it? How have other people used it?"

Goodall said the reference library will be available for any of the firm's roughly 6,000 products, and their related technologies.

On a more commercial level, he added: "If you've gone into the library and identified something you need — you'll be able to point and click, and go directly into that area of our catalog."

The firm's catalog concentrates on computer and communications connectivity products, said Goodall.

He cited products ranging from printer cables to local area and wide area network devices like print spoolers, modems, multiplexers, and protocol conversion products.

Internet subscribers can access Black Box On-Line at <http://www.blackbox.com>.



FIND ZIP+4 AND RESOLVE AMBIGUOUS ADDRESSES FAST WITH USA UNZIPPED

CD Light, publisher of reference information on CD-ROM, announces first shipments of USA UNZIPPED, a Windows program and associated database for PC users providing interactive street address verification plus 5-digit and 9-digit ZIP Code (ZIP+4) lookup for the entire United States and its territories on a single CD-ROM.

The address database of nearly 30 million records, which represents the combined contents of the 35 printed ZIP+4 ZIP Code directories published by the US Postal Service, also includes more than 1 million business names and addresses.

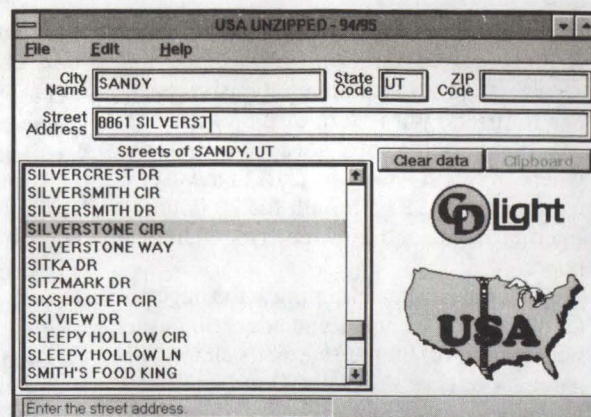
The powerful but easy-to-use interactive search program provides fast access to every city, street, PO Box, and ZIP+4 for the whole country, all for just \$49.95.

USA UNZIPPED is designed for small businesses and other PC users who need ZIP+4 information for barcoding postal discounts and address verification for mailing list maintenance. USA UNZIPPED reduces

or eliminates undeliverable mail caused by incorrect and incomplete street addresses, saving postage and material costs. Converting addresses to standardized spelling and format helps database software find and eliminate duplicate records, saving even more.

Mail with standardized addresses and ZIP+4 is processed and delivered faster by the US Postal Service. And using ZIP+4 adds a professional look to all mailings. The database is also an interesting and convenient reference for city and street names throughout the country.

The speed and power of the interactive search program combine with the experience and knowledge of the user to provide the most accurate address verification system available for the PC. Analyzing and responding to each keystroke, USA UNZIPPED continuously narrows the search, updating



the "hot" list of cities, streets, and addresses drawn from the CD-ROM database in real time.

USA UNZIPPED provides the information while the user makes the final decision to resolve ambiguous or garbled addresses. The user then transfers the verified and standardized address to other Windows programs via the Clipboard.

USA UNZIPPED is available immediately from software retailers or directly from CD Light at 800-571-3914. Dealer inquiries are welcome.

CD Light, 8861 Silverstone Way, Sandy, UT 84093-1679. Tel: 800-571-3914.

MeteoQuest Releases New CD-ROM Sourcebook

Jimmie Smith, President of MeteoQuest, Inc., announced today that MeteoQuest's new CD-ROM directory, entitled "CD-ROM Sourcebook for the Atmospheric, Oceanic, Earth, and Space Sciences", has been released and is being shipped to customers. The MeteoQuest CD-ROM Sourcebook is the first commercial directory to contain information about CD-ROMs involved in these four specific disciplines.

Mr. Smith, in announcing the release of the new publication, stressed the importance of a comprehensive directory at this time. "When we began our initial search for CD-ROM titles in-

volvement in the specific disciplines of interest, we were surprised at the number of companies and government agencies that are getting involved with publishing data and information on CD-ROMs.

The number of CD-ROM titles and the number of organizations involved is growing very rapidly. CD-ROM is a tremendous medium for distributing atmospheric and geoscience data," said Mr. Smith.

"The MeteoQuest CD-ROM Sourcebook is a tool to assist in the management of this rapidly developing convergence of information and technology."

The MeteoQuest CD-ROM Sourcebook contains detailed in-

formation describing more than 300 CD-ROMs published by more than 70 government agencies, educational institutions, and commercial firms. Information was collected from these publishers as well as from distributors and original content providers.

Information about each CD-ROM is condensed from original product literature and other reference material provided by the CD-ROM publisher, distributor, and content provider and included in the form of an abstract.

Extensive efforts were expended to ensure that the information for each CD-ROM product is accurate and current.

CD-ROMs listed in the MeteoQuest Sourcebook are diverse in both content and format. In terms of content, the informa-

tion and data range from the depths of the earth to outer space. Virtually any type of data or information needed for engineering, research, educational and business purposes is available on the many CD-ROMs listed in the MeteoQuest Sourcebook.

The formats of the various data sets vary considerably and consist of imagery, tables, graphs, charts, and maps as well as the basic digital data.

A section of the MeteoQuest CD-ROM Sourcebook contains the names and addresses of the companies and agencies responsible for distributing the CD-ROMs listed in the Sourcebook.

MeteoQUEST Inc., 57 Catesby Lane Bedford, NH 03110-0360, 603-471-1802.

Snapgraphics 2.0 For Windows makes charting as easy as ABC

Micrografx Inc. has announced version 2.0 of its ABC Snapgraphics software for creating diagrams to include in presentations, reports, and other documents.

Snapgraphics is designed to create organizational charts, flow charts, project timelines, and other diagrams. The new version includes a feature called Snapsteps that provides the user with step-by-step instructions on how to create diagrams, plus hints and shortcuts for creating and editing each type of diagram.

A new Template Gallery helps the user choose the type of diagram that will best communicate the idea they are trying to illustrate, explains the best uses of each diagram type, and shows examples.

Version 2.0 of Snapgraphics has added some diagram-specific automations that enhance line routing and shape intelligence features.

David Wilson, Snapgraphics product

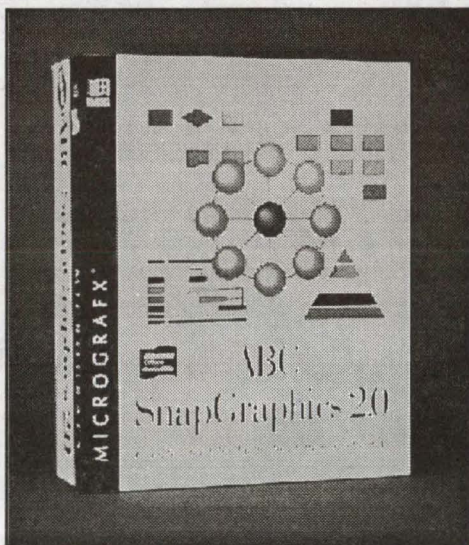
manager, told Newsbytes those features include automatic routing of the lines that connect the shapes on the diagram so the lines do not cross. Wilson also said the lines can be connected at any of five points on the shape. "You have a little more control over

where the line enters each shape," he told Newsbytes.

The new version of Snapgraphics is now integrated with other products in the ABC family so that files and shape palettes can be exchanged with ABC Flowcharter and ABC Toolkit.

The program is also compatible with the applications in the Microsoft Office software collection (Word, Excel, PowerPoint and Access) so the tools and commands in

Snapgraphics will be familiar to users of those applications. Support for OLE (object linking and embedding) 2.0 has also been added so you can create and edit diagrams within documents and presentations without exiting the program in use.



Evergreen Notes Reborn As E-Glue 2.0

Evergreen International Technology unveiled at the COMDEX/Fall trade show a new version of its electronic sticky notes software, with a new name, network capabilities, and support for graphics, video, and animation.

Evergreen equates its software to an electronic version of the sticky but easily removable paper tabs used to attach comments temporarily to paper documents.

Evergreen has made two major additions to its software. One is the addition of support for local-area networks, so that one E-Glue user can attach notes to a file and then send the file to another person on the network while preserving the notes.

Also new is the ability to include graphics, video, and animation in notes. The earlier software only supported text and audio notes.

Kostiuk said no special equipment is needed to take advantage of the new capabilities, although the availability of memory and disk space could limit the size of video and animation files incorporated in notes.

As with the previous version, a sound card is needed to create or play back audio notes, Kostiuk said.

E-Glue will begin shipping in the first quarter of 1995, the vendor said. The suggested retail price will be \$69.95, and multiple-unit pricing deals will be available.

WinSales 3.0 Automates Sales, Marketing Contacts

WinSales Inc. introduced version 3.0 of its automated sales and marketing contact management software for Windows at the Comdex Fall show.

The software, which carries the same name as the company, is available in single-user and network versions. The network version allows multiple instances of the program to run simultaneously so the user can maintain separate in-bound and out-bound call tracks.

WinSales 3.0 logs calls, schedules appointments and integrates word processing functions with popular software like Microsoft Word, Novell WordPerfect or Lotus AmiPro. It can also track correspondence, meetings, expenses, incoming and outgoing calls or other activities the user wants to add to the program.

In order to keep track of the activity related to a specific sales or marketing project, a campaign activity form shows the results of the activities as they relate to each campaign. Each activity conducted is automatically dated and time-stamped, and a notepad utility lets the user attach notes of up to 32,000 characters to each activity or contact record.

WinSales users can create what the company calls an Action Plan to coordinate the activities in a particular selling cycle and the time frame over which those activities occur. The action plan activities automatically show up on a schedule of events. The user can control the frequency and content of each event. Typical activities in an action plan might include mailing reader response cards, sending a brochure or offer, calling for information or sending a birthday card to the prospect.

WinSales also ships Fulfillment Center software as an add-on to WinSales that is included in the base price. The Fulfillment Center displays a chart of dates for performing various tasks, which can be sorted by postal code, company or contact. You can print letters, envelopes and labels, and the display shows how many items are still to be printed or how many have already been printed.

WinSales supports queries of the database. The query appears as a set of index cards titled Criteria, Sort Order, Fields, Options, and Results. Boolean expressions like "equals," "less than," "less than or equal to," "more than or equal to," "more than," "one of," "between," and "is like" are supported for searching.

MAGIC LINK: *Personal intelligent communicator*

Right out of the box, a Magic Link communicator is a useful tool for communications and personal information management. It enables you to:

→ Communicate more easily and efficiently with virtually anyone via fax, e-mail, pager, or telephone.

→ Take many responsibilities off your mind, and into your Magic Link communicator. From reminding you of appointments to routing and sorting your e-mail, to keeping track of expenses with Pocket Quicken and keeping your calendar.

A Magic Link communicator veils the complexity of Intelligent Messaging and electronic agents in a simple, useful, predictable, explorable communicator.

A Magic Link communicator is portable; you can use it at your desk, around your home, or around town. It's about the size of a common daily planner or paperback book. What you see when you turn on a Magic Link reflects the places you take it.

On the screen, you can access three scenes: the Desk, the Hallway, and Downtown.

→ The Desk resembles a real desktop: You see a clock, phone, name card file, In/Out Boxes, file cabinet, datebook, notebook, calculator, different stationary, and a handy postcard for quick messaging.

→ The Hallway resembles a real hallway: You see a corridor, and doors leading to rooms such as the Storeroom, the Library, and Gameroom.

→ Downtown resembles a little town with big potential: You see a street with buildings that are your connection to the outside world.

You work (and play) on your Magic Link communicator by touching either your fingertip or



stylus on the screen as it fast becomes an indispensable part of your life.

MAGICAP SOFTWARE

Magic Link features the Magic Cap platform by General Magic. Magic Cap software is what you see (and what you don't see) when you use Magic Link. First and foremost, Magic Cap software was designed for communication.

A Magic Link communicator is powerful, flexible, and easy to use because of Magic Cap's features:

→ Integrated functionality, which means that everything in your Magic Link works together and shares information for a seamless, tailorable user experience.

→ Telescript, which lets you personalize communication and

benefit from the power electronic agents.

→ A user interface (what you see and interact with) that is based on a very simple concept: We already know how to manipulate objects in the physical world. Messages look like postcards.

The Datebook looks like a datebook. The Phone resembles a phone.

The "physical metaphor" accomplishes two very important things when you use a Magic Link communicator:

1. It makes powerful functions easy to understand and use.

2. It provides a framework for future functionality to be added easily and effectively.

→ An openness that gives provides the opportunity to experience great products, services, and extensions from a growing community of independent developers and service providers.

APPLICATIONS

With a Magic Link communicator, you can communicate with:

→ Almost anyone who has an e-mail address. This includes subscribers of existing commercial online services (America Online, Compuserve, Prodigy, etc.), Internet access providers, and people on LAN-based e-mail systems that have Internet or X.400 gateways. This includes many organizations that use popular mail applications such as Lotus cc:Mail and Microsoft Mail.

→ Everyone with a fax machine.

→ You can reach people with SkyTel pagers.

→ Everyone with a telephone, when you use the optional Magic Link Telephone Headset

A Magic Link communicator gives you this power with incred-

ible simplicity and seamlessness. With automatic updating of your name card file, AT&T PersonaLink directory lookups, and demystified e-mail addresses, Magic Link helps keep your thoughts on a message, rather than the numbers and addresses that will get it there.

FAX ANYTIME TO ANYWHERE

Put a friend or colleague's fax number on his or her name card in your Magic Link communicator. Now you're ready to prepare a fax anytime, anywhere just by touching a postcard and his or her name. Your Magic Link communicator will send out the fax whenever a telephone line is handy for you.

When your Magic Link is sending directly to a fax machine, you can:

- ➔Handwrite a note on the screen of your Magic Link with a choice of virtual pens and markers.

- ➔Type a message with the smart on-screen virtual keyboard.

- ➔Personalize your message with built-in "rubber stamps"

You can even specify that a fax be distributed to a pre-defined group - colleagues working on a specific project, for example - as easily as if you were faxing to just one person.

CONNECT TO DESKTOP

Connecting a Magic Link communicator to a desktop PC with Magic Xchange from IntelliLink can serve a number of functions, such as:

- ➔Backing up the information in your communicator to your PC's hard disk (you can also backup to a PCMCIA card).

- ➔Transferring information from your PC to your communicator, such as a file of names that you currently keep using contact

management software.

- ➔Using your PC's keyboard for direct data entry into your communicator. Magic Xchange will first be available for Windows-based personal computers in early November, followed by a version for Macintosh PCs. The Magic Xchange software and cable allows for seamless data exchange and synchronization between Magic Link and various handheld organizers and PC software.

You can also print to dot-matrix, ink-jet, or laser PC-compatible printers or "print" directly to your fax machine with your Magic Link communicator.

EFFECTIVE TOOL FOR INFORMATION ENTRY

As a tool that you can put to effective use today, a Magic Link communicator allows for various ways to enter information.

- ➔Use the intelligent on-screen virtual keyboard. You can type with suprising proficiency either by finger or stylus.

- ➔Write in digital ink with a choice of various virtual pens and markers.

- ➔Use the optional external Magic Link Keyboard (PICP-K1) for text intensive entry in sedentary places.

Being open and extensible, Magic Cap (the software heart of your Magic Link communicator) allows for the incorporation of other information entry means as technology evolves.

GET WIRELESS MESSAGES

With the optional Magic Link Pager Card (PICP-P1) and SkyTel service, your communicator can receive wireless messages. Whether the card is in your Magic Link communicator, or held separately, you are notified of in-coming messages.

Upon insertion of the pager card into your Magic Link, al-

phanumeric messages are automatically placed into your In Box, time stamped, and cross referenced against your Name Card File.

These wireless messages are integrated with your other messages for organized handling.

With AT&T PersonaLink service, you can even specify that e-mail from certain people or with certain subjects are wirelessly forwarded to your Magic Link communicator via SkyTel.

SEND TO PAGERS

Through AT&T PersonaLink, you can send messages to SkyTel pagers with a couple quick touches of your Magic Link's screen.

You can also add other pager information to cards in your Address Book for quick reference and dialing with a Magic Link communicator.

INTERNET CONVENIENCE

Using a Magic Link communicator with an America Online or AT&T PersonaLink account gives you the ability to send and receive messages with any Internet e-mail address with incredible ease and convenience.

Who has an Internet e-mail address? Today, when the media claims 20-30 million Internet users, they are primarily referring to e-mail.

Subscribers of all major commercial online services have Internet e-mail addresses, as do those who use an internal e-mail system with Internet gateway (such as your company or organization, perhaps).

An Internet e-mail address on a business card is fast becoming as common as a fax number.

When you receive a message, your Magic Link can automatically check for the sender's e-mail address in your Address

Book. If it's not there, it can be added at a touch of the screen for simple future correspondence.

USE AS A PHONE

With Sony's optional Telephone Headset (PICP-T1), your Magic Link communicator becomes a unique full featured telephone.

The Telephone Headset features an innovative design and non-obtrusive microphone that lets you receive and make telephone calls with your Magic Link communicator. In an instant, you can search your name card file and touch a button for auto-speed-dialing. Your Magic Link communicator can also take care of the calling card billing details automatically.

At the same time, your Magic Link keeps a cross-referenced log of incoming calls by time, date, and person called. You can even store handwritten notes from each phone call for easy reference.

DESIGNED SPECIFICALLY AS A COMMUNICATOR

A Magic Link communicator is not a miniaturized laptop computer. It's also not a hand-held device with communications as an after-thought. A Magic Link communicator is designed for communication.

A laptop is great when you need the ability to handle large spreadsheets, write long documents, or do other intensive tasks away from your desk.

There are many situations where you'd like to jot a quick memo to a colleague when pulling out a laptop is a hassle.

A Magic Link communicator quickly powers-on to let you do your business with a look-and-feel that's optimized for use on the fly.



Tektronix Unveils Two New Printers

Tektronix announces new color bubble jet and laser printers. The new models include the \$1,695 Phaser 140 Bubble Jet printer and the Phaser 540, an \$8,895 Postscript printer that can print nearly four color pages-per-minute (ppm) and 14 ppm in monochrome.

The Phaser 540 has a 250-sheet paper tray, and an optional tray assembly accommodates two additional 25-sheet trays. There is also an optional 100-sheet overhead transparency tray. The user can select any of the trays from their PC.

The 540 uses a continuous tone, non-dithered print engine, which the company says provides near-photographic quality printed images.

The electronic document industry glossary of terms defines dithering as the printing process that uses dot patterns to simulate gradations of gray.

Tektronix spokesperson Jennifer Jones told Newsbytes the Phaser 140 Bubble Jet is not a low-end printer in the category of Hewlett-Packard and Epson bubble jets.

"It's for people in small workgroups of five or less," Jones told Newsbytes. "It's the market that needs Postscript and needs a little bit more performance, but not necessarily

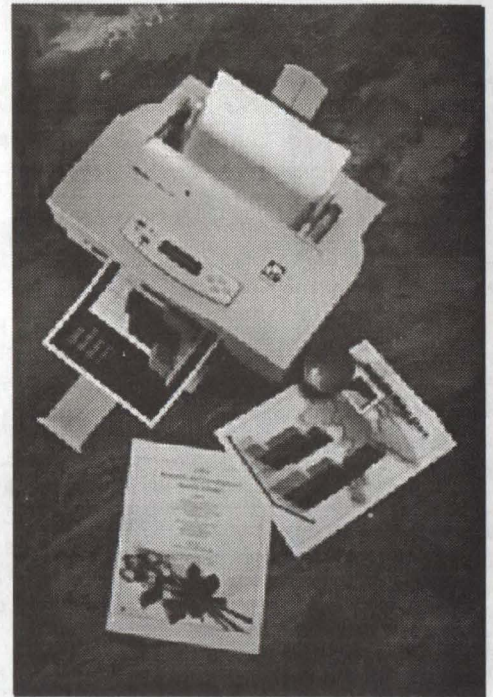
speed. What we have done is go after performance, price and quality," said Jones.

Tektronix spokesperson Chuck Humble told Newsbytes the Phaser 140 includes Postscript capability, can be connected to a network, and prints at two ppm in the black and white mode and one ppm in the color mode.

Tektronix also markets Phaser Share, an automatic port and protocol switching device that lets the Phaser 540 talk to Macintoshes, PCs, and Unix workstations. Phaser Share includes bi-directional management of Tektronix printers on Novell NetWare-based networks.

An optional device called Phaser CopyStation connects to the Phaser 540's SCSI (small computer system interface) port and sends an image of the document to the printer to make multiple copies. CopyStation has a suggested retail price of \$1,695.

The Phaser 540 uses a 32 megahertz (MHz) RISC (reduced instruction-set computing) chip and comes with a standard 20MB of memory, which can be expanded to 36MB or 52MB. There are 39 resident Adobe Postscript typefaces, four resident PCL typefaces, a resident TrueType font rasterizer, and support for downloaded



Adobe typefaces.

The 540 uses TekColor Dynamic Correction that lets the user select a driver for the color correction to be made at print time, for better color control. TekColor can simulate Commercial Press, SWOP Press, and Euroscale Press.

Xerox 3000 Combines Fax/Copier/Printer/Scanner

Xerox is introducing its all-in-one "Document Center" for the small office home office (SOHO) market.

The company says its Xerox 3000 systems combine printing, faxing, scanning, and copying into one machine using ink-jet technology and producing 300 dots-per-inch (dpi) and up to three pages-per-minute printed output.

Speaking to Newsbytes, Josh Mailman, product marketing manager at Xerox, said, "What this announcement is all about is productivity and saving money and time. Xerox has focused on multi-processing and multi-functioning to bring the most advanced, easy-to-use product possible to market."

Xerox maintains the entry-level model of this 15-pound machine will enter the market at a street price less than \$1,000. The 3000 System comes in three different models: the 3002, 3004 and 3006. The 3002 comes with one mailbox and a 9,600 bits-per-second (bps) rate fax modem.

The model 3004 which will not be available until January 1995 comes with the connectivity package described below and includes five mailboxes with a 14,400 bps fax/modem. The list price will be \$1,795

Model 3006, with a list price of \$1,849, comes with the 14,400 bps fax/modem and has 10 mailboxes. Along with the

3002 model, the 3006 is shipping and prospective users should expect to see these models on retail shelves sometime during November. Xerox demonstrated the highlights of the 3000 System at Comdex in Las Vegas in November. Model 3006 does not include the connectivity package.

As a copier, the 3000 System provides collation, reduction and enlargement and its fax capability allows faxing of documents to and from personal computers and fax machines.

Xerox says the machine's memory holds as many as 35 standard pages of text and individual mailboxes may be created to ensure privacy in a shared office environment. A memory upgrade is available for \$199.

Designed for both single desktop users and small networks, the 3000 series offers a dual access capability allowing one user to print a document while another simultaneously faxes a different document.

For an additional \$299, Xerox provides a conductivity package which allows a user to fax directly from a personal computer and scan documents into the PC's hard disk.

The package includes a card and cable, Xerox's TextBridge OCR (optical character recognition) software for editing and clarifying text files, Winfax Lite, and a list manager for configuration. The connectivity package is not scheduled for delivery until January, 1995.

PC KEYBOARD AIMED AT KIDS AGED 2-6

COLORFUL INTRODUCTION TO COMPUTERS: COMFYKEYBOARD

Fall Comdex showed all sorts of new hardware and software, and among the new products, attendees were treated to the ComfyKeyboard for children aged two to six years old.

The company says that, for children two and three years of age, the ComfyKeyboard provides a "colorful introduction to very basic computer skills." Children in the four to six age group are offered more challenging activities through an entertaining set of adventures, or "movies" as the company calls them. These movies are part of the software package which accompanies the keyboard.

In an effort to make the product available to as many users as possible, the company delivers the software on eight floppy disks. CD-ROMs of the program are expected by the end of the year, but the company felt that there are still a lot of users they want to reach who have PCs that are not equipped with multimedia capabilities.

The keyboard requires only DOS 5.0 or better, a Sound Blaster or compatible audio card, VGA or SVGA graphics, 3.5-inch disk drive, at least two megabytes of memory, and 22MB of hard disk space to accommodate all of the motion, sound, and graphics.

Karrie Lace, president of US



Operations for Comfy Interactive Movies, told Newsbytes, "Our entire goal is to base learning and exploring on fun and entertaining experiences for young children. As well as learning basic control of computer commands, children learn basic social skills through interaction with the characters in the movies. They see that being nice, greeting people and helping others are very basic components of life."

Comfy Interactive Movies says it has taken all the precautions to assure parents of the security of their own directories and files. Lace says the program

cannot in any way allow the child to have contact with files outside of the environment created by the program.

As a child gets more adept, the program allows a parent or teacher to create a bootable disk which will take the user directly to the Comfy Interactive area. If a child is able to insert a floppy and turn on the computer, she or he will be able to start the program without parental guidance.

This special keyboard connects to a parallel port, so that a parent's keyboard does not have to be altered.

Lace also said, "We have found that children take to the

ComfyKeyboard very well, partially because it gives them a pride of ownership. Having their own keyboard separate from their parents creates a secure and comfortable environment in which to explore the adventures we provide."

The company says two new titles — ComfyLand: The Great Concert and Christmas In ComfyLand — for the ComfyKeyboard series were available the first week of November.

This product is already available in both toy stores and retail computer outlets for a suggested retail price of \$129.



Computer guru, **Ray Bethke**, speaks out on current computer affairs in his book:

OF MEN AND MICE

It's the news and reviews of the computer industry as seen by Pensacola News Journal's Computer Affairs Correspondent, and is only available at The Computer Place for \$5 or shipped directly to you for \$6.75.

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This system is standard with a One (1) Year Parts & Labor Warranty

Total Cost less tax: \$1395.00

DO-OVER!: The End of Boring Windows

Provides flexible look and feel options to Windows users

Promising to be "The End of Boring Windows," Kansmen Corporation announces Do-Over!, a low cost utility that lets a user change the look and feel of Microsoft Windows 3.X.

"For the first time, Windows users can select the color and font for nearly every aspect of the Windows environment," Kanhom Ng, President of Kansmen Corporation said. "Menu Bars, dialog boxes, backgrounds, text, buttons, borders and frames can all be redesigned using Do Over!" Ng continued.

Do-Over! gives the user or system administrator the ability to control nearly every aspect of the look of the Windows environment. An easy to use menu lets the user see the changes as they are made. A unique interface defines the Windows elements. Enabling or disabling the changes is as easy as a single button click.

A large variety of sample Do-Over! faces lets the user choose a variety of Windows looks, ranging from fun, seasonal looks (like one for St. Patrick's Day and another for Halloween), to faces that are designed as clearly professional upgrades. A face that is similar to the unreleased Windows 95 (formerly called Chicago) can give users a head start on using the future operating environment. Faces that resemble X-Window and other commercially available user interfaces are also included.

Do-over! can be used to easily create a custom look for each user, or for a group of users. "Do-Over! is ideal for companies that

want to add a unique, company specific look to their Windows desktops," Ng stated. With the ability to change bitmap dialog boxes, design unique buttons, and apply desired fonts and colors, Do-Over! makes customization easy.

A library of system buttons, designed for efficiency or for fun, is shipped with Do-Over. A user who is tired of the boring minimize and maximize arrows can replace them with various objects, including geometric symbols, large and small boxes, musical notes, fruit, balloons, or other objects. New buttons can be easily designed by the user, using the Paint program included with Windows.

Do-Bar! provides unprecedented ease of use. In addition to the powerful screen customization tools provided by Do-Over!, a mini-application that provides one button access to each running program is also included in Do-Over!.

The Do-Bar! will quickly prove to be indispensable to many people who use it," Ng said. "It makes switching between applications a snap."

Do-Bar! is a utility that displays icons for all applications that are currently running. The bar can be located along any edge of the screen — top, bottom, left or right. When a user wants to switch from one application to another, a single click on the application's icon on the Do-Bar! instantly opens and maximizes the application. This is much simpler than repeatedly pressing Alt-F4, or minimizing an application and double clicking on an icon to open another one," Ng said.

The Do-Bar! does more than provide a simple method for maximizing any running

application. A Run button brings up a listing of program groups. When selected, the applications in each program group are displayed on screen. Clicking on the desired application's icon automatically starts the application.

The capabilities of Do-Bar! go beyond loading or opening applications. An on-screen clock displays the current time and date. A Config button lets the user select the location of the Do-Bar!, choose whether to open the DoBar! when Windows is first started, and to decide whether or not to show an application's icon, in addition to its name, when the Run button is pressed. Further, the user can decide whether to pop up a balloon that shows an application's name when the cursor is moved over its icon, and how quickly the balloon is displayed after the mouse cursor points to it.

A task management menu, enabling the user to maximize, minimize, close, or bring an application to the top or bottom of the task management menu can be opened by selecting the icon and pressing the right mouse button. Task management has never been simpler.

Finally, an Exit button provides an almost instant way to leave Windows.

Do-Over! began shipping in October and has a suggested list price of \$59. When ordered direct from Kansmen Corporation, Do-Over! will be available at a special introductory price of \$29, through March 30, 1995. A demonstration version of the product can be downloaded from the Kansmen Corporation BBS at (408) 263-0892.

Kansmen Corp, 558 Valley Way, Milpitas, CA 95035-4106, 408-263-9881.

Microsoft Office For Windows Promotion

Microsoft has announced a holiday promotion for its Microsoft Office software for Windows that offers buyers free phone calls or free software.

Buyers of Microsoft Office Standard version 4.2, Microsoft Office Professional version 4.3 or Microsoft Office Professional & Bookshelf CD-ROM version 4.3 can get one hour of free long-distance calling, Microsoft Office Assistant, Viseo Express for Microsoft Office, or Microsoft Entertainment Pack 4. The deal is good through January 31, 1995. A coupon in the Microsoft Office contains details about the offer.

Microsoft Office is a software suite that includes the Microsoft Word word processor, the Microsoft Excel spreadsheet, Microsoft PowerPoint presentation graphics, and a workstation license for

Microsoft Mail. The Professional version also includes Microsoft's Access database management software.

Microsoft Office Pro & Bookshelf includes: Word, Excel, PowerPoint, Access, and the mail license; Microsoft's Bookshelf 94, a CD-ROM-based reference library; Office Assistant, a set of tools to help plan and run a business; and CapScreen, a multimedia tool that lets the user record, edit, play back and verbally annotate actions performed on a computer screen.

Hanson said Microsoft Office Standard is available on disk or CD-ROM with an estimated retail price of \$499, with users of earlier versions or competitive products able to upgrade to version 4.2 for \$299. Office Pro and Pro & Bookshelf on CD-ROM sell for about \$599, and the upgrade price is about \$399.

Microsoft said it has shipped more than seven million units of Office and Office Pro. Microsoft, 206-882-8080 or 800-426-9400.

Inset Ships HiJaak Graphics Suite for Windows: Success with Graphics!

Inset, publisher of the award-winning HiJaak PRO, announces the shipment of HiJaak Graphics Suite version 3.0 for Windows, an upgrade of the award-winning HiJaak PRO 2.0 and more.

HiJaak Graphics Suite has evolved from a single graphics utility to a suite of graphics utilities.

"HiJaak's always been your graphics incompatibility savior.... HiJaak Graphics Suite takes this core competency an order of magnitude further by incorporating all the tools the typical business PC user needs to be completely successful with graphics," says Maurice Hamoy, Inset's VP of Corporate Communications.

HiJaak Browser, the desktop Grand Central of HiJaak Graphics Suite, creates thumbnails of files that can be cataloged, keyworded, searched, viewed and printed. Conveniently drag thumbnails onto the HiJaak Browser Application Bar to launch HiJaak PRO, HiJaak TouchUp or HiJaak Draw and use their powerful editing capabilities on the file that the thumbnail represents.

Through HiJaak Browser, the Suite fully supports 75+ formats including; CorelDRAW CDR, Adobe Illustrator EPS, WordPerfect WPG2, and Image Technologies RLC in addition to the formats supported by the previous HiJaak PRO 2.0. HiJaak Graphics Suite offers an integrated solution for using graphics in all kinds of work.

Catalog the contents of entire drives or directories; organize files by Collection; print catalogs of thumbnails, lay out thumbnails on a page with or without file details; import graphics using drag-and-drop; and launch applications.

Plus, HiJaak Browser makes it a snap to preview multimedia clips with support for audio, video, and animation formats, such as WAV, AVI, and FLI. Just double click on the thumbnail and HiJaak Browser files: search by file name, location, dates, file size and even attributes and keywords. Attributes such as file type and class are automatically extracted from files, vector files are automatically keyworded, and users can manually attach any keyword or note to a file.

From HiJaak Browser, users can select any supported graphics file and use the Suite's powerful editing tools to enhance it. With both a raster and a vector editor, HiJaak

Summary of New Features

■ The new HiJaak Graphics Suite includes an upgraded HiJaak PRO and HiJaak Browser. New additions are HiJaak Smuggler, HiJaak TouchUp and HiJaak DRAW

■ Improved HiJaak Browser allows better organization, keywording, automatic cataloging and searching by keywords and attributes

■ New HiJaak PRO with IGOR (Intelligent Graphics Object Recognition) converts raster to vector graphics file formats using either centerline or outline techniques and gives access to tolerance settings, undither and speck removal

■ New graphics format support for CorelDRAW CDR, Adobe Illustrator EPS, WordPerfect Graphics WPG2, and Image Technologies RLC, empowers HiJaak Graphics Suite with the most extensive graphics format support available

■ HiJaak Smuggler uses thumbnails to visually import virtually any graphics file, all from within any application that supports pasting graphics from the Windows Clipboard

■ HiJaak TouchUp enhances raster graphics with text, color, special effects, and much more. Nearly every commonly used editing tool is available

■ HiJaak DRAW boosts vector graphics with drawing tools, objects manipulation, professional text editing and many other special effects and tools

■ Bonus CD ROM - HiJaak Graphics Suite can be run directly off the CD ROM or installed onto your hard disk, from the CD ROM

Graphics Suite also gives the most comprehensive graphics editing capability available. HiJaak TouchUp adds text, paint and special effects to HiJaak PRO's standard editing capabilities. And the new HiJaak DRAW adds vector editing: allowing users to now edit or create professional-looking drawings.

The new HiJaak PRO still displays, enhances, converts, and prints graphics created in the Windows and DOS environments, as well as Sun, Macintosh, and AMIGA systems. And it still captures screens from the DOS and Windows environments. But in this

upgrade of HiJaak PRO, after many years of research, Inset releases its raster to vector conversion technology.

Raster to vector conversion, or Trace, allows HiJaak users to convert any raster input format to any vector output format. HiJaak PRO's Trace offers IGOR — Intelligent Graphics Object Recognition — the most technologically advanced implementation of raster to vector conversion available in its category. IGOR recognizes shapes — lines as lines and circles as circles — creating small and editable files.

The improved HiJaak PRO interface makes working with graphics even easier. The File menu now remembers the last four images opened. And HiJaak PRO can be configured to remember any option set during a capture or conversion. This capability allows building of recipes called "set files" that users can apply any time. HiJaak PRO also allows users to capture or convert a file and place it directly into a HiJaak Browser Collection. In addition, this version of HiJaak PRO offers a customizable Button Bar to give quick access to common features.

In a continuing effort to make great graphics easy, HiJaak Graphics Suite includes HiJaak Smuggler, a utility that imports any supported graphics files into any application that allows pasting graphics from the Windows Clipboard. Smuggler automatically detects this pasting support and adds a HiJaak Smuggler menu item to the bottom of the application's Edit menu. Select it and users get all the image processing features offered by HiJaak PRO plus the ability to visually pick a graphics file from HiJaak Browser's thumbnails, all from inside their active application.

Registered users of HiJaak PRO 2.0 can receive an upgrade to HiJaak Graphics Suite for \$49.99 plus shipping and handling. New users will probably find HiJaak Graphics Suite at their local computer stores in the \$99.00 range. This purchase comes with over 3000 pieces of clip art and full color images. And as always, Inset offers expert technical support on all of its products and an Unconditional Money Back Guarantee. Concurrent Use Licensing and Maintenance agreements are also available. Inset products are sold worldwide through distributors, retailers and resellers.

Inset, 71 Commerce Drive, Brookfield, CT 06804-3405, 203-740-2400.

A new Windows program from 20/20 Software has been released that calculates various pieces of information relating to personal loans.

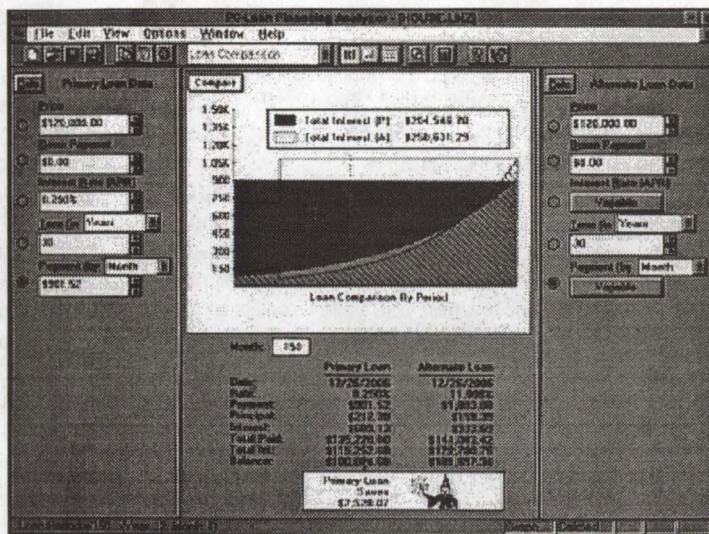
Bill Warner, a spokesperson for 20/20 Software, says PC-Loan is a program that wouldn't have been possible until recently. "PC-Loan marries the power of the personal computer with advanced software techniques so that the program can perform many personal loan calculations previously regarded as too difficult to be incorporated in a consumer product," Warner told Newsbytes.

PC-Loan for Windows will compute the number of payments, the amount of monthly payment, the interest rate, and the total amount the loan will cost including interest.

The program comes with a Loan Wizard that displays payment patterns graphically so you can compare features and display the payment patterns of two loan alternatives.

The company says that will allow the user to easily see why one loan deal may be better than another one.

PC-Loan Software Calculates Loan Payments, Interest



For example, PC-Loan can show the difference between adjustable and fixed rate mortgages or a low interest rate versus a "cash back" auto loan.

A floating bar payoff analysis tool also lets users see how much money they can save by paying the loan off early.

PC-Loan has a suggested retail price of \$59.95. The company says loan providers can order the program in multiple unit packages, and site licenses are also available.

20/20 Software also distributes PC-Install for Windows, an installation software program that can

be used to automate the installation of applications and data files on a PC.

The distributor modifies PC-Install to provide the names of the files to be decompressed and copied to the PC, and what messages are to be displayed on the monitor during installation.

20/20 spokesperson Bill Warner told Newsbytes PC-Install is targeted at software developers who want to make it easier for their customers to install the product as well for use in corporate environments to facilitate and automate the distribution of software and data files.

PC-Install has a suggested retail price of \$179. Registered owners of the earlier version can upgrade to version 3.0 for \$79.

If you bought PC-Install after September 15, 1994 you can upgrade at no charge.

The company also markets a DOS version of PC-Install for \$149, or you can buy the DOS and Window versions bundled for \$249.

20/20 Software, tel 503-520-0504 or 800-735-2020, fax 503-452-5930.

Rand McNally debuts TripMaker For Windows

You might not agree, but according to Rand McNally, trip planning can be as much fun as the trip itself. But to make the chore easier, the venerable map publisher has released TripMaker for Windows on CD-ROM.

TripMaker for Windows includes more than 640,000 miles of roadways, 125,000 cities and towns, and thousands of recreational activities and attractions. The software provides detailed driving instructions and can print maps to take with you. The itinerary the program produces is cross-referenced to the appropriate page numbers in the Rand McNally Road Atlas.

Users can select the quickest, shortest, or most scenic route to their destination. They can also select alternate destinations



and route suggestions based on user preferences, region of the country, and time of year. A Trip Guide wizard walks the user

through the step-by-step trip planning processes.

TripMaker also has a budget feature that lets you estimate the cost of lodging, fuel, meals and entertainment, and information is available on border crossings, toll roads and the phone numbers of major airlines, car rentals agencies, and numerous hotels.

Buyers of TripMaker for Windows also

get five free Attraction Pack databases that contain information about, and directions to, thousands of attractions you can visit.

The databases are: Discovering History; Fun for Kids, Urban Attractions; Airports, Military Bases, Colleges and Universities; and Scenic Tours.

TripMaker has a suggested retail price of \$79, and Rand McNally says it expects the street price (the price you can expect to pay through competitive shopping) will be about \$49. The company provides free, unlimited technical support for TripMaker, although the phone call is not toll-free. Rand McNally also supports TripMaker on Compuserve.

Contact Rand McNally at 800-671-5006, ext 108.



Improve Your Photography With CD-ROM Guide

Diamar Interactive Corp. has introduced a CD-ROM-based program that can help you improve your photography.

"Understanding Exposure: How to Shoot Great Photographs" is an interactive learning program that teaches amateur single-lens-reflex (SLR) photographers how to improve their own photos. The program uses more than 400 separate award-winning photographs by Bryan Peterson, plus video and audio descriptions of practical photography techniques.

Peterson is the author of three books on photography and teaches photography workshops around the world. His books are: "Understanding Exposure" (the basis for the CD-ROM), "Learning To See Creatively," and "People In Focus."

"Understanding Exposure" includes three interactive theaters, eight workshops, three photo labs, and five picture galleries. The interactive theaters provide an overview of the entire CD-ROM as a pre-defined sequence, offering before-and-after examples. If your PC is equipped with a sound card a click of the mouse brings you an audio description by Peterson of his experiences as he shot the picture you're viewing.

You can customize your own workshops by choosing from more than 70 topics. You can also organize the workshops by principles, techniques or specific examples. The galleries let you experiment with different exposure settings as you see the effect of your changes at the click of your mouse. You can also click on the appropriate buttons to review exposure and lens settings for each photograph.

To run the \$79.95 program, you need a Macintosh II or greater, System 7.x operating system, a CD-ROM drive, four megabytes (MB) of system memory and 2MB of available hard drive space, and at least a 640 by 480 256-color monitor.

Photo Factory for Windows: *The best value in Photo CD utility software*

Photo Factory for Windows Version 2.1 from The Multimedia Store is a powerful imaging, file conversion and presentation software program that comes on a genuine Photo CD disc and costs only \$79.00

Digital manipulation of photographic images and the building of applications using digital images has never been easier thanks to The Multimedia Store's upgraded presentation software, Photo Factory for Windows Version 2.1 on CD Rom. In addition to powerful new features and enhancements, Version 2.1 comes bundled with 50 original Midi songs, 50 stock Photo CD images and several slideshow examples, demonstrating Photo Factory's impressive capabilities, all for a low suggested retail price of \$79.00

Rivaling the power of much more expensive multimedia applications, Photo Factory will appeal to a broad range of users. Photographers, both amateur and professional, will appreciate how easily they can access Kodak Photo CD images for edit, enhancement and display. Business professionals will appreciate how simple it is to make high quality presentations, complete with musical backgrounds, voice-overs and text. Educators will find Photo Factory's slideshow feature provides a powerful and stimulating new teaching tool.

In spite of its ease of operation and modest price, Photo Factory for Windows 2.1 has advanced features that rival those found in larger, more costly packages. These include color balancing, cropping, resizing, rotating, mirror imaging, cloning and a variety of image filters. The image file conversion utility supports 8 popular image file formats, including PCX, BMP, TIF, GIF, TGA and JPEG. Once images are edited to suit the user, they can be compressed into JPEG format to conserve disc space. Since Photo Factory supports Midi and Wav sound capabilities, voice and/or music can be added to each image as well as text. Photo Factory for Windows is available directly from The Multimedia Store on a high quality Photo CD.

Minimum system requirements for Photo Factory are a 386 computer system, a Photo CD compatible CD Rom drive, 4 Mb RAM, 256 color VGA display, MS-DOS 3.3 and Windows 3.1 or later. For higher performance, the system should consist of a 486 DX33, double speed CD Rom drive, 8 Mb RAM, a high color or true color Windows accelerator and Windows compatible sound board.

The Multimedia Store's newly announced PF Script software will support Kodak's new Photo CD Portfolio Player and Portfolio Script Producer, enabling users to create multimedia and interactive shows, then compress them for export to be viewed on the Portfolio Player.

Dealer and OEM inquiries are welcome.

The Multimedia Store, located in San Antonio, TX, is a developer of multimedia applications and CD ROM entertainment titles and is a wholly owned subsidiary of George W. Cox and Sons, Inc, a privately held engineering and manufacturing firm founded in 1965.

The Multimedia Store, 5347 Dietrich Road, San Antonio, TX 78219.

Adobe Intros Consumer CD-ROMs

Adobe Systems Inc. has announced its first entries into the consumer CD-ROM software market. The company has introduced deluxe versions of Adobe HomePublisher 2.0 Deluxe CD and SuperPaint 3.5 Deluxe CD, both with an estimated street price of \$69, and the dual consumer graphics programs bundle of Adobe Paint & Publish Deluxe CD, with an estimated street price of \$99.

The CDs combine the current versions of Adobe's consumer titles with over 1,500 color and black and white images covering a wide range of subjects such as celebrities, travel, adventure, and designs. An on-line catalog for viewing and selecting the images is also included.

The company says the new Deluxe CD version of SuperPaint incorporates easy-to-use painting, drawing and image enhancement tools and clip art images in one package. The CD version allows users to browse through the on-line catalog of more than 1,500 clip art images in commonly used file formats such as PICT and EPS, which they can select and use in the designs.

Adobe HomePublisher 2.0 CD Deluxe is the company's consumer publishing package for creating professional-looking home and office documents, including flyers, brochures, labels, and calendars.

The Deluxe CD also has more than 1,500 clip art images (PICT and EPS) that users can view and access from the program's on-line browser.

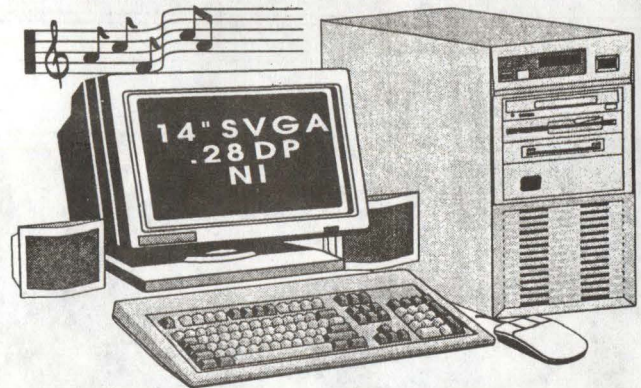
Fifty built-in templates are included to create frequently used documents, such as business cards and newsletters. A dozen fonts and specialty designer papers are also provided.

The third offering is the bundle of Adobe Paint & Publish Deluxe CD for an all-in-one home and small office desktop graphics product.

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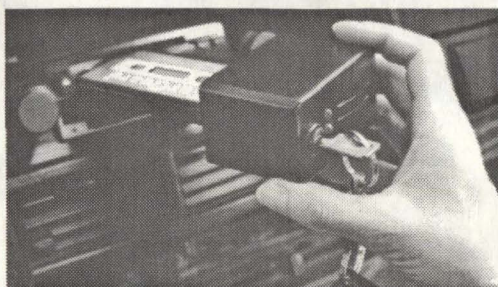
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